Form 3160-4 (October 1990)

UNITED STATES DEF

SUBMIT IN DUPLICATE* (See other In-structions on reverse side)

FOR APPROVED OMB NO 1004-0137

Expires December 31, 1991
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NM-4456

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BASIN MANCOS 6,810' - 7,245' NO	24 PRODUC	TION INTERVA	L (S) OF TI	HIS COMPLE	TION-TOP, BOTTO	M, NAMI	E (MD AND TVE))*					
CASING RECORD (Report all strings set in well)	BASIN	MANCOS	6,810	' - 7,245'								00111211111	
CASING SIZEIGRADE WEIGHT, LB IFT DEPTH SET (MC) HOLE SIZE TOP OF CEMENT, CEMENTING RECORD AMOUNT PULLED 9 5/8", H-40 32.3# 233" 12 1/4" Surface, 498 sx(1045) 5 bbls 7", J-55 20# 3724' 8 3/4" Surface, 498 sx(1046) 67 bbls 4 1/2", L-80 11.6# 8125' 6 1/4" TOC @ 3,800"/321 sx (479cf) 30 TUBING RECORD SIZE TOP (MD) BOTTOM (MD) SACKS CEMENT* SCREEN (MD) SIZE DEPTH SET (MD) PACKER SET (MD) 31 PERFORATION RECORD (Internal, size and number) LOWER Mancos wil .34" diam 3 SPF @ 7,075"-7,245' = 54 holes Upper Mancos wil .34" diam 2 SPF @ 8,105" - 6,980" SPF @ 8,10" - 6,980" Frac wil 157,164 gal slickwater wil 7500# 100 Mesh sand. 2 SPF @ 8,815# 40/70 Mesh sand. 3 SPF @ 7,075"-7,245' = 54 holes Upper Mancos wil .34" diam 2 SPF @ 8,610" - 6,980" Total Holes = 90 30 Frac wil 137,164 gal slickwater wil 7500# 100 Mesh sand. 8 SPF @ 8,10" - 6,980" Frac wil 131,082 gal slickwater wil 7500# 100 Mesh sand. 8 SA,264# 40/70 Mesh sand. 9 FRODUCTION METHOD (Promos, pas MI, puriping-size and type of pump) 10/27/111-GRS FLOWING DATE PRET PRODUCTION METHOD (Promos, pas MI, puriping-size and type of pump) 11/10/11 1/2" 11/10/11 1/2" 11/10/11 1/2" 11/10/11 1/2" 11/10/11 1/2" 11/10/11 1/2" 11/10/11 1/2" 11/10/11 1/2" 11/10/11 1/2" 11/10/11 1/2" 11/10/11 1/2" 11/10/11 1/2" 11/10/11 1/2" 11/10/11 1/2" 11/10/11 1/2" 11/10/11 1/2" 11/10/11 1/2" 11/10/11 1/2" 11/10/11 1/2" 11/10/11 1/2 bw/h 11/10/11 1/2" 11/10/11 1/2" 10 35 mcf/d 13 bw/d 35 ILST OF ATTACHMENTS This is a Blanco Mesa Verde/Basin Mancos/Basin Dakota being commingled by DHC Order #4463. 36 ILBT OF ATTACHMENTS This is a Blanco Mesa Verde/Basin Mancos/Basin Dakota being commingled by DHC Order #4463. 36 ILBT OF ATTACHMENTS THE Staff Regulatory Technicain DATE 11/18/11 D 1/11			THER LOG	SRUN							27 WAS	S WELL CORED	
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2 3/8", 4,7# 31 PERFORATION RECORD (Interval, size and number) 32 ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC 33 SPF @ 7,075"-7,245" Frac w/ 157,164 gal slickwater w/ 7500# 100 Mesh sand & 88,815# 40/70 Mesh sand. 35 SPF @ 6,810" - 6,980" = 36 holes Total Holes = 90 36 Frac w/ 131,082 gal slickwater w/ 7520# 100 Mesh sand & 84,264# 40/70 Mesh sand. 37 Frac w/ 131,082 gal slickwater w/ 7520# 100 Mesh sand & 84,264# 40/70 Mesh sand. 38 Frac w/ 131,082 gal slickwater w/ 7520# 100 Mesh sand & 84,264# 40/70 Mesh sand. 39 Frac w/ 131,082 gal slickwater w/ 7520# 100 Mesh sand & 84,264# 40/70 Mesh sand. 30 Frac w/ 131,082 gal slickwater w/ 7520# 100 Mesh sand & 84,264# 40/70 Mesh sand. 39 Frac w/ 131,082 gal slickwater w/ 7520# 100 Mesh sand & 84,264# 40/70 Mesh sand. 30 Frac w/ 131,082 gal slickwater w/ 7520# 100 Mesh sand & 84,264# 40/70 Mesh sand. 31 Frac w/ 131,082 gal slickwater w/ 7520# 100 Mesh sand & 84,264# 40/70 Mesh sand. 30 Frac w/ 131,082 gal slickwater w/ 7520# 100 Mesh sand & 84,264# 40/70 Mesh sand. 31 Frac w/ 131,082 gal slickwater w/ 7520# 100 Mesh sand & 84,264# 40/70 Mesh sand. 32 Frac w/ 131,082 gal slickwater w/ 7520# 100 Mesh sand & 84,264# 40/70 Mesh sand. 33 Frac w/ 131,082 gal slickwater w/ 7520# 100 Mesh sand & 84,264# 40/70 Mesh sand. 34 Frac w/ 131,082 gal slickwater w/ 7520# 100 Mesh sand & 84,264# 40/70 Mesh sand. 35 Interest Frac production Fraction Fract					CORD						TU		
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11/10/11 1 1/2 0 15 mct/h 1/2 bw/h FLOW TUBING PRESS CASING PRESSURE CALCULATED OIL—BBL GAS-MCF WATER-BBL OIL GRAVING ELECTRY) 24-HOUR RATE 24-HOUR RATE 34-DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) To be sold 35 LIST OF ATTACHMENTS This is a Blanco Mesa Verde/Basin Mancos/Basin Dakota being commingled by DHC Order #4463. 36 I hereby certify that the foregoing and attached information is complete and correct as determined from all available records ACCUMENTATION OF COMMENTATION OF COMME			HOURS T					-BBL	GAS-	-MCF	WATE		GAS-OL BATIO
SI-323PSI SI-793PSI 0 359 mcf/d 13 bw/d 34 DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) To be sold 35 LIST OF ATTACHMENTS This is a Blanco Mesa Verde/Basin Mancos/Basin Dakota being commingled by DHC Order #4463. 36 I hereby certify that the foregoing and attached information is complete and correct as determined from all available records SIGNED SIGNED TITLE Staff Regulatory Technicain DATE 11/15/111 p 2044												I/2 bw/h	\%
SI-323PSI SI-793PSI 0 359 mcf/d 13 bw/d 34 DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) To be sold 35 LIST OF ATTACHMENTS This is a Blanco Mesa Verde/Basin Mancos/Basin Dakota being commingled by DHC Order #4463. 36 I hereby certify that the foregoing and attached information is complete and correct as determined from all available records SIGNED SIGNED TITLE Staff Regulatory Technicain DATE 11/15/111 p 2044	FLOW TUBING	G PRESS	CASING	PRESSURE		OIL	BBL	GASMCF		WATERBE	3L		OIL GRAVITY API (CORR.)
35 LIST OF ATTACHMENTS This is a Blanco Mesa Verde/Basin Mancos/Basin Dakota being commingled by DHC Order #4463. 36 Thereby certify that the foregoing and attached information is complete and correct as determined from all available records SIGNED ACCEPTED FOR FICTORD SIGNED TITLE Staff Regulatory Technicain DATE 11/15/111 p 2044					d, etc)		0	359 mc	f/d	<u>1</u>	3 bw		23488
This is a Blanco Mesa Verde/Basin Mancos/Basin Dakota being commingled by DHC Order #4463. 36 Thereby certify that the foregoing and attached information is complete and correct as determined from all available records SIGNED ACCEPTED FOR FIGURED TITLE Staff Regulatory Technicain DATE 11/15/111 p 2044	05 110757	ATTAOLIS		e sold						·			- '
36 I hereby certify that the foregoing and attached information is complete and correct as determined from all available records SIGNED TURNS OWNLY TITLE Staff Regulatory Technicain DATE 11/15/111 p 2044				Basin Mai	ncos/Basin Da	kota h	eina comm	ingled by DHC	Orde	r #4463.			
TOUR TO A THE				d attached in	formation is comple							ACC	jepted for ric ord
	SIGNED	Pinus	e	× • • • • • • • • • • • • • • • • • • •									

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 ARMINGTON FIELD OFFICE United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction NROCD

API#30-039-30725			CAT DRAW 1F			
Ojo Alamo	2490'	2659'	White, cr-gr ss.	Ž	Ojo Alamo	2490'
Kirtland	2659'	3150'	Gry sh interbedded w/tight, gry, fine-gr ss.	\$	Kirtland	2659'
Fruitland	3150'	3415'	Dk gry-gry carb sh, coal, grn silts, light-med gry, tight, fine gr ss.		Fruitland	3150'
Pictured Cliffs	3415'	3593'	Bn-Gry, fine grn, tight ss.		Pic.Cliffs	3415'
Lewis	3593'	4163'	Shale w/siltstone stringers		Lewis	3593'
Huerfanito Bentonite	4163'	4240'	White, waxy chalky bentonite	- 0	Huerfanito Bent.	4163'
Chacra	4240'	5098'	Gry fn grn silty, glauconitic sd stone w/drk gry shale		Chacra	4240'
Mesa Verde	5098'	5408'	Light gry, med-fine gr ss, carb sh & coal		Mesa Verde	5098'
Menefee	5408'	5702'	Med-dark gry, fine gr ss, carb sh & coal		Menefee	5408'
Point Lookout	5702'	6100'	Med-light gry, very fine gr ss w/frequent sh breaks in lower part of formation		Point Lookout	5702'
Mancos	6100'	6944'	Dark gry carb sh.	-	Mancos	6100'
Gallup	6944'	7671'	Lt gry to brn calc carb micac glauc silts & very fine gr gry ss w/irreg. interbed sh		Gallup	6944'
Greenhorn	7671	7715'	Highly calc gry sh w/thin lmst.		Greenhorn	7671'
Graneros	7715'	7821'	Dk gry shale, fossil & carb w/pyrite incl.		Graneros	7715'
Dakota	7821'	8130'	Lt to dk gry foss carb sl calc sl silty ss w/pyrite incl thin sh bands clay Y shale breaks	9	Dakota	7821'
Morrison			Interbed grn, brn & red waxy sh & fine to coarse grn ss		Morrison	



UNITED STATES DEPARTMENT OF THE INTERIOR

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

BUREAU OF LAND MANAGEMENT

MITTER OF	SEEDL F	TION OF F	COMPLET	TION DEDO			W Essen Engel	6 IF I		E OR TRIBE NAM	
		TION OR R		ION REPO	JKI AND	LOG) [^]	0 11 11	NOWN, ALCOTTE	LE OR HUBE IV	
1a TYPE OF V	AFTT.	WELL	GAS WELL X	DRY Other	<u>~~₩0</u> ₩	17	2011	7 1161	TACREMENT	NAME	
b TYPE OF C	OMPLETION	ON [.]			,,,,,,				T AGREEMENT	o Leas	_
	NEW Y	WORK DEEP-	PLUG	DIFF Other	Farming	iton F	ield Office		RM OR LEASE N		
	WELL	OVER EN }	BACK		Bureau of I	and	Managem	∍ni	CAT	DRAW 1F	
2 NAME OF (OPERATO	R			Dureau Ori	Lallu	Manage	9 API	WELL NO	DIGHT II	
		Resources Oil 8	& Gas Company	V					30-0	39-30725 (DOC
3 ADDRESS	AND TELE	PHONE NO						10 FI	ELD AND POOL,	OR WILDCAT	
		, Farmington, NN		326-9700						N DAKOTA	
		(Report location clea	•	e with any State re	equirements)*				=C,⊺,R,M,O DRAREA	R BLOCK AND SU	JRVEY
At surface	K (I	NESW) 2080' FSL	& 1340' FWL						TANCA		
At top	!-t!		Same As Above					i	Soc 4	T30N, R5W	,
At top prod	ilitervarie	ported below	Sallie AS Above						360.4,	13014, 13344	
At total dep	oth Sai	me As Above									
			144	DEDMITNO	DATE ICCUI	-6		40 0	OUNTY OR	1 42 CTATE	
			14.	PERMIT NO.	DATE ISSUE	יט			PARISH	13 STATE	
								Ri	o Arriba	New M	lexico
15 DATE SPUD		DATE T D REACHED	17 DATE COM	PL (Ready to prod.)		18 ELE	VATIONS (DF, RI	KB, RT, E	BR, ETC)*	19. ELEV CAS	INGHEAD
5/18/11 20 TOTAL DEP		6/28/11	ACK T D , MD &TVD	11/4/11-GRS		23 11	6,429'-GL ERVALS		4'-KB Y TOOLS	CABLE TOOLS	
20 TOTAL DEP	in, MU&IV	21 PLUG, B	ACK ID, MD&IVD	122 IF MULTIPLE CO			ERVALS RILLED BY	KOTAK'	, TOOLS	CABLE TOOLS	
8	,130'		8,106'	3	3	}			yes		
24. PRODUCTIO	N INTERVA	L (S) OF THIS COMPLE	TION-TOP, BOTTOM, N	IAME (MD AND TVD)*	•				25 WAS DIREC		
BASIN F	DAKOTA	7,958' - 7,995'						i	SURVEY M	NO	
		THER LOGS RUN						27 WAS	WELL CORED		
GR/CC	L/CBL									No	
28			C	ASING RECORD (Report all string:	s set in	well)	· · · · · · · · · · · · · · · · · · ·			
CASING SIZE		WEIGHT, LB /FT	DEPTH SET (MD)	HOLE SIZE			EMENTING RECO	RD	A	MOUNT PULLED	
9 5/8", F	1-40	32.3#	233'	12 1/4"			6 sx(122cf)			5 bbls	
							8 sx(1049cf)				
7", J-5 4 1/2", L		20# 11.6#	3724' 8125'	8 3/4" 6 1/4"	1		ol @ 3,116' /321 sx (479c	e.		67 bbls	
29	00	LINER RE		1 0 1/4	30	3,000	321 3X (413C		BING RECOR	D	
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE		DEPTH SET			ACKER SET (MD))
					2 3/8", 4.						
DEDEGRATI	ION DECOR	D (Interval, size and num	16-1	 	ST-85 -1-80		8,057	05145	NT COLUEEZE	ETO	
31 PERFORATI Dakota w/ .34		o (miervai, size and num	iber)	7,958' -			T, FRACTURE ze w/ 10 bbis				
2 SPF @ 7.95		' = 30 holes		1,000	1,000		ze w <i>r</i> to bbis N2 slickfoam				gai
	.,			}			2,619,700scf.	•••	12017 20170 1	•	
							-				14192021222 PECENTE
											482021222
						ļ					
						1				15	DEOE
				1						ZZ SZ	HECEIVE
					N. C.	 				1 (2)	WIV 2014
33					RODUCTION					12	CAR CONS. DIV. DIST.
DATE FIRST PRO		i i	CTION METHOD (Flowin	ng, gas lift, pumping—s	size and type of pu	mp)			WELL STATUS	(Producing dr shu	URE CONS. DIV. DIST
11/4. DATE OF TEST	/11-GRS	HOURS TESTED	OWING TCHOKE SIZE PRO	OD'N FOR OILE	BBI	GAS-	-MCF	WATE	SI ERBBL	ICAS OIL BOOK	
1201			L I	ST PERIOD							API (CORR.)
11/10/		1	1/2" -	──	0	L '	12 mcf/h		I/4 bw/h		YSSHEZV
LOW TUBING F	PRESS	CASING PRESSURE	1	OILBBL	GASMCF		WATER-B	3L		OIL GRAVITY-	API (CORR.)
61 202	nei	SI ZOSDEI	24-HOUR RATE	0	200 ma	f/d] ,	11 hu	/d]	
SI-323		SI-793PSI Sold, used for fuel, vent	ed, etc.)	0	288 mc	i/u	L	11 bw	TEST WITNESS	ED BY	
		To be sold	•								
35 LIST OF AT	TACHMENT				·				·		
		Verde/Basin Ma									
36. I hereby cer	tify that the fo	oregoing and attached in	formation is complete ar	nd correct as determin	ned from all available	e records			A ^^==		ממפטם מ
7) un	The Color	ENEW TITLE		· -	.	•		AUCEF		RECORD
SIGNED	2016	un juu	TITLE	Staf	f Regulatory	ecnni	cain	DATE		11/15/11	
	**		1.11		A -1 -1:4:	LD-1		- Old:	. 1	HENE T O	*11144

*(See Instructions and Spaces for Additional Data on Reverse Side) 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

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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

				VEST VALLE	1.00*	6 IF INDIAN ALLOTT	EE OR TRIBE NAME
	ETIONORR	RECOMPLET					57, 7,000 10,000
PE OF WELL:	WELL	GAS WELL X	DRY Other	<u> ЫОУ</u>	1 7 2011	7_ UNIT AGREEMENT	NAME
PE OF COMPLET	ION:					REDOCT A	o Leas
NEW X	WORK DEEP-	PLUG	DIFF Other	Farmingto	on Field Office	8 FARM OR LEASE N	IAME, WELL NO
WELL 1	OVER EN	BACK	KEOVIK	ureau of La	nd Managemer	L CAT	DRAW 1F
ME OF OPERATO)R			- OGU OI LO	ind managee.	9 API WELL NO	
	Resources Oil	& Gas Company	/				39-30725-6063
DRESS AND TEL			000 0700			10 FIELD AND POOL	
	9, Farmington, NN L (Report location clea		326-9700	auromonte*			MESA VERDE OR BLOCK AND SURVEY
		•	e with any State re	quirements)		OR AREA	ON BEOCK AND SURVEY
surface K ((NESW) 2080' FSL	6 1340 PVVL					
top prod interval re	eported below	Same As Above				Sec. 4.	. T30N, R5W
top prod interval		,					, ,
total depth Sa	me As Above						
		14	PERMIT NO.	DATE ISSUE	.D	12. COUNTY OR	13. STATE
		'"	. 2000 100.]		PARISH	
				L		Rio Arriba	New Mexico
TE SPUDDED 16		17. DATE COM	PL. (Ready to prod)	2	18 ELEVATIONS (DF, R		19. ELEV. CASINGHEAD
5/18/11) TAL DEPTH, MD &T\	6/28/11 /D 21 PLUG B	ACK T D , MD &TVD	10/24/11-GRS		0,429 -GL 23 INTERVALS	/ 6,444'-KB	CABLE TOOLS
THE DEL TH, MID OLIV	21 1200, 5		HOW M		DRILLED BY		
8,130'		8,106'	3			yes	
DUCTION INTERVA	AL (S) OF THIS COMPLE	TION-TOP, BOTTOM, N	AME (MD AND TVD)*			25 WAS DIRECT	
ANCO MESA	VERDE 5,105'	- 5992'					NO
E ELECTRIC AND C						27. WAS WELL CORED	
CCL/CBL						<u></u>	No
			ASING RECORD (
IG SIZE/GRADE	WEIGHT, LB /FT	DEPTH SET (MD)	HOLE SIZE		MENT, CEMENTING RECO	DRD A	AMOUNT PULLED
5/8", H-40	32.3#	233'	12 1/4"		ace, 76 sx(122cf)		5 bbls
7", J-55	20#	3724'	8 3/4"		ce, 498 sx(1049cf) ge Tool @ 3,116'		67 bbls
. , 0-00	11.6#	8125'	6 1/4"		3,800'/321 sx (479c	f)	J. 5515
1/2", L-80				30		TUBING RECOR	RD
4 1/2", L-80	LINER RE	CORD		0175	DEPTH SET	(MD) F	PACKER SET (MD)
		SACKS CEMENT*	SCREEN (MD)	SIZE			
				2 3/8", 4.	7#		·
TOP (MD)		SACKS CEMENT*	3	2 3/8", 4.°	7# 8,057'		. ETC.
TOP (MD)	BOTTOM (MD)	SACKS CEMENT*		2 3/8", 4." -\$\$ ±80 ACI	7# 8,057' D, SHOT, FRACTURE	, CEMENT SQUEEZE	<u> </u>
TOP (MD) FORATION RECOR OOKOUT W/ .34'	BOTTOM (MD) RD (Interval, size and num	SACKS CEMENT*	32	2 3/8", 4." -\$\$ ±80 ACI	7# 8,057' D, SHOT, FRACTURE Acidize w/ 10 bbls		rac w/ 32,172 gal
TOP (MD) FORATION RECOR OOKOUT W/ .34' @ 5,610' - 5,992 ee / Cliffhouse	BOTTOM (MD) D (Interval, size and nun diam 2' = 17 holes w/ .34" diam	SACKS CEMENT*	32 5,610' -	2 3/8", 4. 	7# 8,057' D, SHOT, FRACTURE Acidize w/ 10 bbls	, CEMENT SQUEEZE 15% HCL Acid. F	rac w/ 32,172 gal Brady sand.
E TOP (MD) RFORATION RECOR Lookout w/ .34' Ø 5,610' - 5,992 ee / Cliffhouse Ø 5,105' - 5,496	BOTTOM (MD) D (Interval, size and nun diam 2' = 17 holes w/ .34" diam	SACKS CEMENT*	32	2 3/8", 4. 	7# 8,057' D, SHOT, FRACTURE Acidize w/ 10 bbls 70Q N2 slickfoam N2: 1,202,100scf.	, CEMENT SQUEEZE : 15% HCL Acid. F w/ 42,496# 20/40 E	rac w/ 32,172 gal Brady sand.
E TOP (MD) RFORATION RECOR Lookout w/ .34' Ø 5,610' - 5,992 ee / Cliffhouse Ø 5,105' - 5,496	BOTTOM (MD) D (Interval, size and nun diam 2' = 17 holes w/ .34" diam	SACKS CEMENT*	32 5,610' -	2 3/8", 4. 	7# 8,057' D, SHOT, FRACTURE Acidize w/ 10 bbls 70Q N2 slickfoam N2: 1,202,100scf. Frac w/ 34,608 gal	, CEMENT SQUEEZE 5 15% HCL Acid. F w/ 42,496# 20/40 E 1 70Q N2 slickfoam	rac w/ 32,172 gal Brady sand.
E TOP (MD) RFORATION RECOR Lookout w/ .34' @ 5,610' - 5,99; ee / Cliffhouse @ 5,105' - 5,496	BOTTOM (MD) D (Interval, size and nun diam 2' = 17 holes w/ .34" diam	SACKS CEMENT*	32 5,610' -	2 3/8", 4. 	7# 8,057' D, SHOT, FRACTURE Acidize w/ 10 bbls 70Q N2 slickfoam N2: 1,202,100scf. Frac w/ 34,608 gal	, CEMENT SQUEEZE : 15% HCL Acid. F w/ 42,496# 20/40 E	rac w/ 32,172 gal Brady sand.
ZE TOP (MD)	BOTTOM (MD) D (Interval, size and nun diam 2' = 17 holes w/ .34" diam	SACKS CEMENT*	32 5,610' -	2 3/8", 4. 	7# 8,057' D, SHOT, FRACTURE Acidize w/ 10 bbls 70Q N2 slickfoam N2: 1,202,100scf. Frac w/ 34,608 gal	, CEMENT SQUEEZE 5 15% HCL Acid. F w/ 42,496# 20/40 E 1 70Q N2 slickfoam	rac w/ 32,172 gal Brady sand.
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TOP (MD) ERFORATION RECOR Lookout w/ .34' @ 5,610' - 5,992' fee / Cliffhouse @ 5,105' - 5,496' Holes = 41	BOTTOM (MD) AD (Interval, size and nun diam 2' = 17 holes w/ .34" diam 6' = 24 holes	SACKS CEMENT*	5,610' - 5,105' -	2 3/8", 4. \$5	7# 8,057' D, SHOT, FRACTURE Acidize w/ 10 bbls 70Q N2 slickfoam N2: 1,202,100scf. Frac w/ 34,608 gal 20/40 Brady sand.	, CEMENT SQUEEZE 15% HCL Acid. F w/ 42,496# 20/40 E 170Q N2 slickfoam N2: 1,151,100scf	w/ 39,624#
E TOP (MD) RFORATION RECOR Lookout w/ .34' @ 5,610' - 5,992' ee / Cliffhouse @ 5,105' - 5,496' Holes = 41	BOTTOM (MD) RD (Interval, size and nun diam 2' = 17 holes w/ .34" diam 6' = 24 holes	SACKS CEMENT*	5,610' - 5,105' -	2 3/8", 4. \$5	7# 8,057' D, SHOT, FRACTURE Acidize w/ 10 bbls 70Q N2 slickfoam N2: 1,202,100scf. Frac w/ 34,608 gal 20/40 Brady sand.	, CEMENT SQUEEZE 5 15% HCL Acid. F w/ 42,496# 20/40 E 1 70Q N2 slickfoam	w/ 39,624#
E TOP (MD) RFORATION RECOR Lookout w/ .34' @ 5,610' - 5,99; ee / Cliffhouse @ 5,105' - 5,496; -loles = 41 REST PRODUCTION 10/24/11-GRS	BOTTOM (MD) RD (Interval, size and nun diam 2' = 17 holes w/ .34" diam 6' = 24 holes	SACKS CEMENT* hoter) CTION METHOD (Flowin)WING CHOKE SIZE PRC	32 5,610' - 5,105' - 5,105' - PR g, gas lift, pumping-s	2 3/8", 4. S	7# 8,057' D, SHOT, FRACTURE Acidize w/ 10 bbls 70Q N2 slickfoam N2: 1,202,100scf. Frac w/ 34,608 gal 20/40 Brady sand.	, CEMENT SQUEEZE 15% HCL Acid. F w/ 42,496# 20/40 E 170Q N2 slickfoam N2: 1,151,100scf	w/ 39,624#
TOP (MD) REFORATION RECOR Lookout w/ .34' @ 5,610' - 5,999 fee / Cliffhouse @ 5,105' - 5,499 Holes = 41 REST PRODUCTION 10/24/11-GRS	BOTTOM (MD) I' diam 2' = 17 holes W/ .34" diam 6' = 24 holes PRODU: HOURS TESTED	SACKS CEMENT* District Control	5,610' - 5,105' - 5,105' -	2 3/8", 4. \$\$	7# 8,057' D, SHOT, FRACTURE Acidize w/ 10 bbls 70Q N2 slickfoam N2: 1,202,100scf. Frac w/ 34,608 gal 20/40 Brady sand.	CEMENT SQUEEZE 15% HCL Acid. F w/ 42,496# 20/40 E 70Q N2 slickfoam N2: 1,151,100scf	w/ 39,624# REC
E TOP (MD) REFORATION RECOR Ookout w/ .34' @ 5,610' - 5,999 ee / Cliffhouse @ 5,105' - 5,496 doles = 41 RST PRODUCTION 10/24/11-GRS	BOTTOM (MD) I D (Interval, size and num I diam 2' = 17 holes WI .34" diam 6' = 24 holes PRODUCT HOURS TESTED	SACKS CEMENT* Distribution CHowin	32 5,610' - 5,105' - 5,105' - Fg, gas lift, pumping-s	2 3/8", 4. \$5	7# 8,057' D, SHOT, FRACTURE Acidize w/ 10 bbls 70Q N2 slickfoam N2: 1,202,100scf. Frac w/ 34,608 gal 20/40 Brady sand.	CEMENT SQUEEZE 15% HCL Acid. F w/ 42,496# 20/40 E 170Q N2 slickfoam N2: 1,151,100scf WELL STATUS SI WATER-BBL 3/4 bw/h	w/ 39,624# (Precurency or shut-in) GAS ON RATIO
TOP (MD) REFORATION RECOR Lookout w/ .34' @ 5,610' - 5,992' fee / Cliffhouse @ 5,105' - 5,496' Holes = 41	BOTTOM (MD) I' diam 2' = 17 holes W/ .34" diam 6' = 24 holes PRODU: HOURS TESTED	SACKS CEMENT* Distribution CHowin	32 5,610' - 5,105' - 5,105' - PR g, gas lift, pumping-s	2 3/8", 4. \$\$	7# 8,057' D, SHOT, FRACTURE Acidize w/ 10 bbls 70Q N2 slickfoam N2: 1,202,100scf. Frac w/ 34,608 gal 20/40 Brady sand.	CEMENT SQUEEZE 15% HCL Acid. F w/ 42,496# 20/40 E 170Q N2 slickfoam N2: 1,151,100scf WELL STATUS SI WATER-BBL 3/4 bw/h	w/ 39,624# REC
E TOP (MD) RFORATION RECOR Ookout w/ .34' @ 5,610' - 5,992 Be / Cliffhouse @ 5,105' - 5,496 Holes = 41 RST PRODUCTION 10/24/11-GRS TEST 11/10/11 UBING PRESS	BOTTOM (MD) I D (Interval, size and num I diam 2' = 17 holes WI .34" diam 6' = 24 holes PRODUCT HOURS TESTED	SACKS CEMENT*	32 5,610' - 5,105' - 5,105' - Fg, gas lift, pumping-s	2 3/8", 4. 5.992' 5,992' 5,496' ODUCTION ize and type of punition of punit	7# 8,057' D, SHOT, FRACTURE Acidize w/ 10 bbls 70Q N2 slickfoam N2: 1,202,100scf. Frac w/ 34,608 gal 20/40 Brady sand. GAS-MCF 21mcf/h WATER-B	CEMENT SQUEEZE 15% HCL Acid. F w/ 42,496# 20/40 E 170Q N2 slickfoam N2: 1,151,100scf WELL STATUS SI WATER-BBL 3/4 bw/h	w/ 39,624# (Precurency or shut-in) GAS ON RATIO
TOP (MD) FORATION RECOR ookout w/ .34' @ 5,610' - 5,999' e / Cliffhouse @ 5,105' - 5,496' oles = 41 ST PRODUCTION 10/24/11-GRS TEST 11/10/11 JBING PRESS	BOTTOM (MD) RD (Interval, size and num diam 2' = 17 holes wl .34" diam 6' = 24 holes PRODU: FLC HOURS TESTED 1 CASING PRESSURE	SACKS CEMENT* Diber) CTION METHOD (Flowin) DWING CHOKE SIZE PRC TES 1/2" CALCULATED O 24-HOUR RATE	32 5,610' - 5,105' - 5,105' - FR G, gas lift, pumping-s DDN FOR OIL-B T PERIOD	2 3/8", 4. \$5	7# 8,057' D, SHOT, FRACTURE Acidize w/ 10 bbls 70Q N2 slickfoam N2: 1,202,100scf. Frac w/ 34,608 gal 20/40 Brady sand. GAS-MCF 21mcf/h WATER-B	CEMENT SQUEEZE 15% HCL Acid. F w/ 42,496# 20/40 E 170Q N2 slickfoam N2: 1,151,100scf WELL STATUS SI WATER-BBL 3/4 bw/h BL	w/ 39,624# B 92 (Producing or, shut-in) GAPOL RATIO OIL GRAVITY, APINCORR
TOP (MD) ORATION RECORD ORAT	BOTTOM (MD) CD (Interval, size and nun diam 2' = 17 holes wl .34" diam 5' = 24 holes PRODU: FLC HOURS TESTED 1 CASING PRESSURE SI-793PSI (Sold, used for fuel, vent) To be sold	SACKS CEMENT* Diber) CTION METHOD (Flowin) DWING CHOKE SIZE PRC TES 1/2" CALCULATED O 24-HOUR RATE	32 5,610' - 5,105' - 5,105' - FR G, gas lift, pumping-s DDN FOR OIL-B T PERIOD	2 3/8", 4. 5.992' 5,992' 5,496' ODUCTION ize and type of punition of punit	7# 8,057' D, SHOT, FRACTURE Acidize w/ 10 bbls 70Q N2 slickfoam N2: 1,202,100scf. Frac w/ 34,608 gal 20/40 Brady sand. GAS-MCF 21mcf/h WATER-B	, CEMENT SQUEEZE 15% HCL Acid. F w/ 42,496# 20/40 E 170Q N2 slickfoam N2: 1,151,100scf WELL STATUS SI WATER-BBL 3/4 bw/h BL 18 bw/d	w/ 39,624# B 92 (Producing or, shut-in) GAPOL RATIO OIL GRAVITY, APINCORR
TOP (MD) FORATION RECORD FORATION RECO	BOTTOM (MD) CD (Interval, size and num 2' = 17 holes WI .34" diam 6' = 24 holes PRODUIT FLO HOURS TESTED 1 CASING PRESSURE SI-793PSI (Sold, used for fuel, vent) To be sold	SACKS CEMENT* Diber	32 5,610' - 5,105' - 5,105' - PR g, gas lift, pumping—s DDN FOR OIL—B T PERIOD IL—BBL 0	2 3/8", 4. 5.992' 5,992' 5,496' 60000000000000000000000000000000000	7# 8,057' D, SHOT, FRACTURE Acidize w/ 10 bbls 70Q N2 slickfoam N2: 1,202,100scf. Frac w/ 34,608 gal 20/40 Brady sand.	, CEMENT SQUEEZE 15% HCL Acid. F w/ 42,496# 20/40 E 170Q N2 slickfoam N2: 1,151,100scf WELL STATUS SI WATER-BBL 3/4 bw/h BL 18 bw/d	w/ 39,624# B 92 (Producing or, shut-in) GAPOL RATIO OIL GRAVITY, APINCORR
TOP (MD) FORATION RECORD OOKOUT W/ .34' ② 5,610' - 5,992' e / Cliffhouse ③ 5,105' - 5,496' Oles = 41 ST PRODUCTION 10/24/11-GRS TEST 1/10/11 BING PRESS 1-323PSI POSITION OF GAS OF ATTACHMENT a Blanco Mes	BOTTOM (MD) CD (Interval, size and nun diam 2' = 17 holes wl .34" diam 5' = 24 holes PRODU: FLC HOURS TESTED 1 CASING PRESSURE SI-793PSI (Sold, used for fuel, vent) To be sold	SACKS CEMENT* Diber) CTION METHOD (Flowin) DWING CHOKE SIZE PROTES 1/2" CALCULATED O 24-HOUR RATE ed, etc)	32 5,610' - 5,105' - 5,105' - PR g, gas lift, pumping-s DDN FOR OIL-B T PERIOD	2 3/8", 4. 5.480 ACI 5,992' 5,496' 5000-CTION GAS-MCF 508 mcf	7# 8,057' D, SHOT, FRACTURE Acidize w/ 10 bbls 70Q N2 slickfoam N2: 1,202,100scf. Frac w/ 34,608 gal 20/40 Brady sand.	, CEMENT SQUEEZE 15% HCL Acid. F w/ 42,496# 20/40 E 170Q N2 slickfoam N2: 1,151,100scf WELL STATUS SI WATER-BBL 3/4 bw/h BL 18 bw/d	w/ 39,624# B 92 (Producing or, shut-in) GAPOL RATIO OIL GRAVITY, APINCORR

*(See/Instructions and Spaces for Additional Data on Reverse Side)

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 Title 18 U S C Section 1001, makes it a crime for any person theorem. S., United States any false, fictitious or fraudulent statements or representations as to any matter than the statement of the states and the statement of the states and the states are statements or representations as to any matter than the states are statements or representations. atter within its jurisdiction

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API#30-039-30725			CAT DRAW 1F		
Ojo Alamo	2490'	2659'	White, cr-gr ss.	Ojo Alamo	2490'
Kirtland	2659'	3150'	Gry sh interbedded w/tight, gry, fine-gr ss.	Kirtland	2659'
Fruitland	3150'	3415'	Dk gry-gry carb sh, coal, grn silts, light-med gry, tight, fine gr ss.	Fruitland	3150'
Pictured Cliffs	3415'	3593'	Bn-Gry, fine grn, tight ss.	Pic.Cliffs	3415'
Lewis	3593'	4163'	Shale w/siltstone stringers	Lewis	3593'
Huerfanito Bentonite	4163'	4240'	White, waxy chalky bentonite	Huerfanito Bent.	4163'
Chacra	4240'	5098'	Gry fn grn silty, glauconitic sd stone w/drk gry shale	Chacra	4240'
Mesa Verde	5098'	5408'	Light gry, med-fine gr ss, carb sh & coal	Mesa Verde	5098'
Menefee	5408'	5702'	Med-dark gry, fine gr ss, carb sh & coal	Menefee	5408'
Point Lookout	5702'	6100'	Med-light gry, very fine gr ss w/frequent sh breaks in lower part of formation	Point Lookout	5702'
Mancos	6100'	6944'	Dark gry carb sh.	Mancos	6100'
Gallup	6944'	7671'	Lt gry to brn calc carb micac glauc silts & very fine gr gry ss w/irreg. interbed sh	Gallup	6944'
Greenhorn	7671'	7715'	Highly calc gry sh w/thin lmst.	Greenhorn	7671'
Graneros	7715'	7821'	Dk gry shale, fossil & carb w/pyrite incl.	Graneros	7715'
Dakota	7821'	8130'	Lt to dk gry foss carb sl calc sl silty ss w/pyrite incl thin sh bands clay Y shale breaks	Dakota	7821'
Morrison			Interbed grn, brn & red waxy sh & fine to coarse grn ss	Morrison	



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