In Lieu of Form 3160-4 (July 1992)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

FORM APPROVED OMB NO 1004-0137 Expires: February 28, 1995

5 LEASE DESIGNATION AND LEASE NO NMSF-078765

						6 IF INDIAN, ALLO	ITEE OR		
	WELL COMPL	ETION OR REC	COMPLETION R	EPORT AND L	OG*				
		V C 4C WELL		רח	CENED	7 UNIT AGREEMEN			
	OF WELL FOIL WELL	X GAS WELL	DRY OTHER	الماليان الم			Rosa Unit		
	OF COMPLETION IEW WELL WORKS	OVER DEEPEN PL	UG BACK DIFF RESVR	. OTHER		Need	c.A		
	OF OPERATOR			ŪÇ	T 1 5 2009	8 FARM OR LEASE			
Z. IVAIVIE	OF OF ERATOR	WILLIAMS PRO	DUCTION COMPANY	7		Ro	sa Unit #167D		
3. ADDR	ESS AND TELEPHONE NO			10, 5 11 0 10,	The Class Office	9 API WELL NO.			
			Aztec, NM 87410 (505	لسىيىدىئ ^{ىد} ا 1634-4208)	Carri Plant Omas	1	15-34985 -00C 2		
4. LOCA	ATION OF WELL (R		and in accordance with	<u> </u>	ts)*		POOL, OR WILDCAT		
		5' FEL, sec 8, T31N,				В	Sasın Mancos		
-	•	reported below: 2452	'FSL & 683' FEL, sec 8	3, T31N, R6W					
At tota	al depth. Same					11. SEC , T ,R ,M , O	R BLOCK AND		
		SURVEY OR AREA							
					DATE ISSUED	Sec 8	, T31N, R6W		
				14 PERMIT NO	DATE ISSUED	San Juan	13 STATE New Mexico		
15 DATE	16 DATE T D	17 DATE COMPLETED	O (READY TO PRODUCE)	18 ELEVATIONS (DK	, RKB, RT,GR,ETC)*	19. ELEVATION CAS			
SPUDDED	REACHED 7-30-09	10	-14-09	626	52' GR	RCVD i	RCVD OCT 21 '09		
7-18-09 20 TOTAL DEPTH, N		21 PLUG, BACK T.D.,	MD & TVD	22 IF MULTCOMP ,	23 INTERVALS	ROTARY TOOLS	CABLE TOOLS		
	/ 7903' TVD	8111' MD / 7898'		HOW MANY 3 *	DRILLED BY		DNS. DTV.		
24 PRODUCING INT	ERVAL(S), OF THIS COM	IPLETION - TOP, BOTTON	M, NAME (MD AND TVD)*	L		25 WAS DIRECTION	AL SURVEY MADE		
BASIN MANCOS: 6930'-7356' MD							IST. 3		
	AND OTHER LOGS RUN		T I II	Saula Can Datastan	and CDI	27 WAS WELL COR No	ED		
Aray Induction, Compensated Gamma Ray-Density-Neutron, Temperature, Ultra Sonic Gas Detector and CBL									
	(Report all strings set in wel IZE/GRADE	II) WEIGHT, LB /FT	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEM	MENTING RECORD	AMOUNT PULLED		
	4", J-55	40.5#	319'	14-3/4"	290 SX - St		AMAGONI PODDED		
7-5/8", K-55 26.4# 3746'				9-7/8"	580 SX – SU	JRFACE			
		17 0#	8116'						
3-1/2	", N-80	1 / U#	8110	6-3/4"	360 SX – 493	90 (CBL)			
29 LINER RECORD SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	30 TUBING RECORD SIZE	DEPTH SET (MD)	PACKER SET (MD)		
0220	101 (112)	2011011(112)		b Ores II (IIIb)	2.375", 4 7#, J-55	8056'	none		
AL DEPEND ATTOM D	ECORD (Interval, size, and			10 LOTE CHOT FRAC	& N-80 EUE 8rd	FTO			
31 PERFORATION R	· (interval, size, and	numoer)		DEPTH INTERVAL	TURE, CEMENT SQUEEZE, AMOU	INT AND KIND OF MA	TERIAL USED		
				(MD)					
Upper Mancos:	Total of 69, 0.34" ho	oles 🖊		6930'-7150'	Fraced with 5187# 10	00 mesh sand follow	ved with 112,267# 40/70		
				0930 -7130	mesh sand				
Lower Mancos:	Total of 63, 0.34" hol				Fraced with 4992# 10	00 mesh sand follow	ved with 120,267# 40/70		
Lower muncos.	10tai 01 05, 0.54 1101			7214'-7356'	mesh sand	o mosii sand rono.	700 Will 120,207/1 10/70		
22 DRODUCTION C	ommingled with Mes	saverde and Dakota pe	or A 7T 3245						
						NEW LOCATION	TIO (PROPILICA) OF CIT		
DATE OF FIRS	T PRODUCTION	PRODU	CTION METHOD (Flowing, ga	is int, pumping-size and type	e or pump)	WELL STAT	US (PRODUCING OR SI)		
			Flow	ing 🖊		SI – waiting on tie-in			
DATE OF TEST	TESTED	CHOKE SIZE	PROD'N FOR TEST	OIL - BBL	GAS – MCF	WATER - BBL	GAS-OIL RATIO		
10-12-09	2 hr	1/2"	PERIOD						
TT ON THE STORES	O COLOR DE PROGRAMA	OALOUI ATTE	24 HOLD DATE	OV PRI	0.48 . 1405	11/4 TED 12/2	OV CDAVITY ANY (CORD.)		
FLOW TBG PRESS 0	CASING PRESSURE	CALCULATED	24-HOUR RATE	OIL - BBL.	GAS – MCF 999 mcf/d √	WATER - BBL	OIL GRAVITY-API (CORR)		
·	450 lb				JJJ Mond -				
34 DISPOSITION OF	GAS (Sold, used for fuel, ve	ented, etc) TO BE SOLD				TEST WITNESSED B	Y: Craig Ward		
35 LIST OF ATTACH	MENTS SUM	MARY OF POROUS ZO	NES, WELLBORE DIAG	RAM, Directional EOW	report	ACCEPTED FOR HECORD			
36 I hereby certify that	the foregoing and attached	ormation is complete and	correct as determined from all av	ailable records			1.0.000		

TITLE Drlg COM DAT

DATE __10-15-09

FARMINGTON FELD OFFICE

37 SUMMARY OF POROUS ZONES (Show all important zones of porosity and contents thereof, cored intervals, and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries) 38.GEOLOGIC MARKERS воттом FORMATION TOP DESCRIPTION, CONTENTS, ETC NAME TOP MEASURED DEPTH TRUE VERTICAL DEPTH NAME PICTURED CLIFFS 3274' 3064' **LEWIS** 3628' 3416' CLIFFHOUSE 5472' 5259' POINT LOOKOUT 5748' 5535' MANCOS 6232' 6019' GRANEROS 7845' 7632' DAKOTA 7977' 7764'

In Lieu of Form 3160-4 (July 1992)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE FORM APPROVED OMB NO. 1004-0137

Expires February 28, 1995

(See other instructions on reverse side) 5. LEASE DESIGNATION AND LEASE NO NMSF-078765

		··.			· ·	6 IF INDIAN,ALLO	TTEE OP
•	WELL COMPL	ETION OR REC	COMPLETION R	EPORT AND I	OC*	0 IF INDIAN,ALLO	TIEE OR
	WEEL COMITE.	ETION OR REC	COMILETION K		SCIVED	7 UNIT AGREEME	NT NAME
1a. TYPE	OF WELL	. X GAS WELL	DRY OTHER				Rosa Unit
	OF COMPLETION NEW WELL WORKS	OVER DEEPEN PLU	JG BACK DIFF RESVR	OTHER DOT	1 5 2009	NMMW-	VM-AFOHRE
		TER DEBIEN TER	JO BACK BIT KESTK	OTHER PAGE	¥ O 5003	8 FARM OR LEASE	
2. NAME	OF OPERATOR	WITH LIAMS DDO	DUCTION COMPANY	, Greenan			sa Unit #167D
3. ADDR	EGG AND TELEDITORE AN		DUCTION COMPAIN		ten Shid Offen	9. API WELL NO	Sa Ollit #107D
3. ADDR	ESS AND TELEPHONE N						15-34985 - 60C3
4. LOCA	ATION OF WELL (R		Aztec, NM 87410 (505 and in accordance with		*		POOL, OR WILDCAT
		eport location clearly a		any State requirement	ts)*	1	nco Mesaverde
		, , ,	K6 w 'FSL & 683' FEL, sec 8	3, T31N, R6W)	Dia	nco iviesaverde
At tota	al depth. Same					11 050 7 8 14 0	D Dr Ook AND
						11 SEC, T,R.,M, O SURVEY OR AR	
							, T31N, R6W
				14 PERMIT NO	DATE ISSUED	12 COUNTY OR	13. STATE
	Lizarman	Lis num court rous	(27.21.22.22.22.22.22.22.22.22.22.22.22.22.	10 Pr Pri mrovia (Pri	TWO DE COLUMN	San Juan	New Mexico
15 DATE	16. DATE T D REACHED	ľ	(READY TO PRODUCE)	18 ELEVATIONS (DK		19. ELEVATION CA	
SPUDDED 7-18-09	7-30-09		-14-09	626	52' GR	RCVD	OCT 21'09
20 TOTAL DEPTH, I		21 PLUG, BACK T.D.,		22 IF MULTCOMP, HOW MANY	23 INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
	/ 7903' TVD	8111' MD / 7898'		3 *	DRILLED BY		DNS.DIV.
	* **		M, NAME (MD AND TVD)*			25. WAS DIRECTION	VAL SURVEY MADE
	SAVERDE: 5442'- AND OTHER LOGS RUN			···		YES 1.27 WAS WELL COR	
			tron, Temperature, Ultra	Sonic Gas Detector	and CBL	No No	,
20 CASPIC PERSON			<u> </u>		:	<u>L </u>	
	(Report all strings set in well IZE/GRADE	WEIGHT, LB /FT	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEM	MENTING RECORD	AMOUNT PULLED
10-3/-	4", J-55	40 5#	319'	14-3/4"	290 SX - St		
7-5/8", K-55 26.4# 3746' 9-7/8" 580 SX –					580 SX – SU	JRFACE	
	", N-80	17.0#	8116'	6-3/4"	360 SX - 493	26' (CBI)	
J-1/2	, 14-00	17.0#	0110	0-3/-4	300 BX = 493	00 (CBL)	<u> </u>
					,		
29 LINER RECORD SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	30 TUBING RECORD SIZE	DEPTH SET (MD)	PACKER SET (MD)
5.22	TOT (IMD)	BOTTOM (MD)	Bricks CEMENT	OCKER((III))	2.375", 4.7#, J-55	8056'	none
	<u> </u>				& N-80 EUE 8rd		
31 PERFORATION R	ECORD (Interval, size, and	number)		32.ACID, SHOT, FRAC DEPTH INTERVAL	TURE, CEMENT SQUEEZE,	ETC JNT AND KIND OF MA	TEDIAL LICED
~				(MD)	Almoc	THE RIVE OF ME	
Unnar MV: Tota	al of 52, 0.34" holes	_		5442'-5722'	Fraced with 81,484#	20/40 mesh BASE	
Opper Mr 10ta	11 01 32, 0.34 Holes			3112 3722	riacca wiaror, com	20/10/11/05/12/10/	
,) (II. m		_		5748'-6008'	F 1	20/40	
Lower MV: Tota	d of 72, 0 34" holes			3748 -0008	Fraced with 84,642#	20/40 mesn BASF	
33 PRODUCTION C	commingled with Mar	ncos and Dakota per A	ZT-3245				
DATE OF FIRS	T PRODUCTION	PRODU	CTION METHOD (Flowing, ga	as lift, pumping-size and type	e of pump)	WELL STAT	US (PRODUCING OR SI)
			Flow	ring -		SI – v	vaiting on tie-in
DATE OF TEST	TESTED	CHOKE SIZE	PROD'N FOR TEST	OIL - BBL.	GAS – MCF	WATER - BBL	GAS-OIL RATIO
			PERIOD	OIL - DDL.	GAS - MCr	WAIRE - DDL	OAS-OIL KATIO
10-12-09	2 hr	1/2"	- 2.402		ĺ	ĺ	
FLOW TBG PRESS	CASING PRESSURE	CALCULATED	24-HOUR RATE	OIL – BBL	GAS MCF	WATER - BBL	OIL GRAVITY-API (CORR)
0				_	1053 mcf/d √	İ	, ,
	450 lb					l	
34 DISPOSITION OF	GAS (Sold, used for fuel, ve	ented, etc) TO BE SOLD				TEST WITNESSED B	Y Craig Ward
35 LIST OF ATTACH	MENTS SUM	MARY OF POROUS ZO	NES, WELLBORE DIAG	RAM, Directional EOW	report		
		-Ction is complete and	correct as determined from all as	oulable records		ACCEP	TED FOR NECORD

36 I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

TITLE THE COMP DATE 10-15-09

OCT 1 9 2009

FARMINGTON PIELD OFFICE BY TEST YEARS

ismon used, tane tool open,	,,	,	cored intervals, and all drill-stem, tests, including depth interval tested				
							•
FORMATION	TION TOP BOTTOM DESCRIPTION, CONTENTS, ETC		NAME	ļ	ТОР		
					NAME	MEASURED DEPTH	TRUE VERTICAL DEP
					PICTURED CLIFFS	3274'	3064'
					LEWIS	3628'	3416'
İ					CLIFFHOUSE	5472'	5259'
					POINT LOOKOUT	5748'	5535'
		1	.		MANCOS	6232'	6019'
	-				GRANEROS	7845'	7632'
					DAKOTA	7977'	7764'
		Ì					
						,	3
		1					
	-						
	,				•		
		1			1		

In Lieu of Form 3160-4 (July 1992)

UNITED STATES DEPARTMENT OF THE INTERIOR BURGALLOE LAND MANAGEMENT

SUBMIT IN DUPLICATE

FORM APPROVED
OMB NO 1004-0137

Expires February 28, 1995

		SUREAU OF LA	ND MANAGEME.	,	See other instructions on everse side)	· ·	ATION AND LEASE NO. NMSF-078765		
						6 IF INDIAN,ALLO	TTEE OR		
	WELL COMPL	ETION OR REC	COMPLETION R	EPORT-AND I	:OG*//~□ <u> </u>	<u> </u>	<u> </u>		
				アクログラ		7 UNIT AGREEME			
1a TYPE OF WELL. Γ OIL WELL $X GAS WELL$ DRY OTHER							Rosa Unit		
	OF COMPLETION. VEW WELL WORKS	OVER DEEPEN PLO	JG BACK DIFF.RESVR	OTHER OCT 1	5 2009	NMNM	- 78407B-C	K	
2 NAME	OF OPERATOR			lilean were at 1 mg	eat 11.11 have as a few first	8 FARM OR LEASE	NAME, WELL NO		
			DUCTION COMPANY	الما القالما الما المال	id Manog strent Tiold Office	1	osa Unit #167D		
3. ADDR	ESS AND TELEPHONE N					9 API WELL NO			
			Aztec, NM 87410 (505		_	30-0-	45-34985 OOCL		
At Su At to	nrface: 1965' FNL & :	5' FEL, sec 8, T31N, 1	and in accordance with R6W FSL & 683' FEL, sec 8		ts)*		POOL, OR WILDCA Basin Dakota OR BLOCK AND	AT	
	-					SURVEY OR A			
							3, T31N, R6W		
				14. PERMIT NO.	DATE ISSUED	12 COUNTY OR	13. STATE		
	Lichiman	T				San Juan	New Mex	100	
15. DATE SPUDDED 7-18-09	16 DATE T D REACHED 7-30-09	l .	O (READY TO PRODUCE) -14-09	18 ELEVATIONS (DK	52' GR	19. ELEVATION CA	SINGHEAD		
20 TOTAL DEPTH,	MD & TVD / 7903' TVD	21 PLUG, BACK T.D., 8111' MD / 7898'		22 IF MULTCOMP., HOW MANY	23 INTERVALS DRILLED BY	ROTARY TOOLS X	CABLE TOOLS		
	TERVAL(S), OF THIS CON OTA. 7977'-8096'		M, NAME (MD AND TVD)*	3 *		i .	NAL SURVEY MADE		
	AND OTHER LOGS RUN					YES 27 WAS WELL COR	ED		
			tron, Temperature, Ultra	Sonic Gas Detector	and CBI	No			
			Cimporataro, Ciac	- Somo Gus Doccolor					
	(Report all strings set in we SIZE/GRADE	II) WEIGHT, LB /FT	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEM	MENTEN'C RECORD	AMOUNT PULLI	ED	
	4", J-55	40.5#	319'	14-3/4"	290 SX - SI		AMOUNT FUELD	ED	
						······································			
7-5/8	", K-55	26.4#	3746'	9-7/8"	580 SX – SI	JRFACE			
5-1/2	", N-80	17.0#	8116'	6-3/4"	360 SX - 493	36' (CBL)			
20 / DED DECOND		<u></u> .			44		<u> </u>		
29 LINER RECORD SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	30 TUBING RECORD SIZE	DEPTH SET (MD)	PACKER SET (M	(D)	
	, , , , , , , , , , , , , , , , , , , ,			55.657 (1.35)	2.375", 4.7#, J-55	8056'	none		
		<u> </u>			& N-80 EUE 8rd				
31. PERFORATION R	ECORD (Interval, size, and	number)		32 ACID, SHOT, FRAC DEPTH INTERVAL	TURE, CEMENT SQUEEZE,	ETC JNT AND KIND OF MA	TEDIAL LICED		
Dakota: Total of	f 72, 0.34" holes			(MD)	AMOC	JINT AND KIND OF MA	TERIAL USED		
				7977'-8096'	Fraced with 5065# 10 mesh sand		ved with 66,549# 40/ OCT 21 '09	70	
						OIL C	ONS. DIV.		
33 PRODUCTION C	Commingled with Mes	saverde and Mancos p	er AZT-3245	***	_	D	15T. 3		
DATE OF FIRS	T PRODUCTION	PRODU	CTION METHOD (Flowing, ga	is lift, pumping-size and typ-	e of pump)	WELL STAT	TUS (PRODUCING OR SI)		
	_		Flow	ing	ļ	SI – v	waiting on tie-in 🗸		
DATE OF TEST	TESTED	CHOKE SIZE	PROD'N FOR TEST	OIL - BBL	GAS - MCF	WATER - BBL	GAS-OIL RATIO)	
10-12-09 ✔	2 hr	1/2"	PERIOD	٠,,,					
FLOW TBG PRESS	CASING PRESSURE	CALCULATED	24-HOUR RATE	OIL – BBL	GAS – MCF	WATER - BBL	OIL GRAVITY-API (C	ORR)	
0					648 mcf/d √			,	
Ť	450 lb								
34 DISPOSITION OF	GAS (Sold, used for fuel, ve	ented, etc). TO BE SOLD	L			TEST WITNESSED B	Y: Craig Ward		
35 LIST OF ATTACH			NES, WELLBORE DIAGI	RAM, Directional FOW	report	N N	ED FOR RECORD	ì	
			orrect as determined from all av			<u> </u>	<u></u>	B B	
DO AMELEUS CELLIN (Bat	www.		w word man at av	manufor records		1 00%	4 0 0000	H	

NMOCD %

OCT 1 9 2009

FARMINGTON FIELD OFFICE BY TL Salvers

shion used, time tool open,	flowing and shut-in pressures, a	nd recoveries)		ests, including depth interval tested,	38.GEOLOGIC MARKER	-		·
								1
FORMATION	TOP	воттом	DESCRIPTION, CONTENTS, ETC		NAME	ТОР		
				NAME	MEASURED DEPTH	TRUE VERTICAL DEPI		
				; ;		PICTURED CLIFFS	3274'	3064'
						LEWIS	3628'	3416'
						CLIFFHOUSE	5472'	5259'
į	1					POINT LOOKOUT	5748'	5535'
						MANCOS	6232'	6019'
						GRANEROS	7845'	7632'
,						DAKOTA	7977'	7764'
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