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-078767

6 IF INDIAN, ALLOTTEE OR

,	WELL COMPL	ETION OR RE	COMPLETION R	EPORT AND L	OG*			
	OF WELL   TOIL WELL	<u>X</u> GAS WELL	DRY OTHER	R	ECEIVE	7 UNIT AGREEM	MENT NAME Rosa Unit	
	VEW WELL WORK	OVER DEEPEN PL	UG BACK DIFF RESVR	OTHER		NMm-	VM-4F028F	_
2 NAME	OF OPERATOR				NOV <b>20</b> 2009	8.FARM OR LEA	SE NAME, WELL NO	
		WILLIAMS PRO	ODUCTION COMPANY				Rosa Unit #019D	
3 ADDR	ESS AND TELEPHONE N			Fam	of Land Managen nington Field Office	9 API WELL NO	030 30781	
4 LOC	ATION OF WELL (D		Aztec, NM 87410 (505) and in accordance with	) 034-4208	TOTA OMO	9	039-30781 - OOC3	<del>-</del>
At Su At to	rface: 1980' FSL & 6	660' FWL, sec 24, T3		, 1	is)"	l .	Blanco Mesaverde	1
	•					11 SEC , T ,R ,M SURVEY OR	AREA	
				14 PERMIT NO	DATE ISSUED	12 COUNTY OR	24, T31N, R6W	
				14 PERMIT NO		Rio Arriba	New Mexic	ю
15 DATE	16 DATET D	Į.	D (READY TO PRODUCE)	18 ELEVATIONS (DK		19 ELEVATION O	ASINGHEAD	
SPUDDED 8-25-09	REACHED 9-8-09	11	1/16/09	631	II'GR	POUT	DEC 1 '09	
20 TOTAL DEPTH,		21 PLUG, BACK T D.,		22 IF MULTCOMP,	23 INTERVALS	ROTARY TOOLS	CABLE TOOLS	
	/ 7944' TVD	8157' MD / 7937'		HOW MANY 3 *	DRILLED BY		IMS.DIV.	
			M, NAME (MD AND TVD)*				ONAL SURVEY MADE	
	SAVERDE: 5353' – AND OTHER LOGS RUN		Comm	ingled with MC & D	K per AZT-3263	YES T	MCT Q	
			eutron, Temperature, Ultr	a Sonic Gas Detector	and CBL	No		
	(Report all strings set in well IZE/GRADE	l) WEIGHT, LB /FT	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEN	MENTING PECOPID	AMOUNT PULLED	
	4", J-55	40.5#	313'	14-3/4"	300 SX - S		AMOUNT FOLLED	
7-5/8	", K-55	26.4#	3862'	9-7/8"	590 SX – S	URFACE		
5-1/2	", N-80	17.0#	8164'	6-3/4"	360 SX - 34	90' (CBL)		
	<u> </u>							
29.LINER RECORD		<u> </u>	<u> </u>		30 TUBING RECORD		<u> </u>	
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	
				-	2.375", 4.7#, J-55 & N-80 EUE 8rd	8006'	none	
31 PERFORATION R	ECORD (Interval, size, and i	number)		32 ACID, SHOT, FRAC DEPTH INTERVAL	TURE, CEMENT SQUEEZE,	ETC. JNT AND KIND OF M	ATERIAL LISED	
	<u>.</u>			(MD)	711/100	STIT / BIT D ILLINO OF IT.	THE GOLD	
<u>Upper MV:</u> 63, 0 Lower MV: 69, 0	-			5353'-5734'	Frac with 80,120# 20	0/40 mesh BASF		
130WCI WIV. 02, 0	.54 noics			5816'-6181'	Frac with 80,000# 20	0/40 mesh BASF		
33.PRODUCTION								
DATE OF FIRS	F PRODUCTION	PRODU	ICTION METHOD (Flowing, ga	s lift, pumping-size and type	e of pump)	WELL STA	TUS (PRODUCING OR SI)	
	İ		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	
11/13/09	2 hr	32/64"	PERIOD				2	
FLOW TBG PRESS	CASING PRESSURE	CALCULATEI	D 24-HOUR RATE	OlL - BBL	GAS – MCF	WATER - BBL.	OIL GRAVITY-API (COR	(R)
0	400 lb				934 mcf/d <b>~</b>			
34 DISPOSITION OF	GAS (Sold, used for fuel, ver	nted, etc.) non flaring		l		TEST WITNESSED	BY Weldon Higgins	
35 LIST OF ATTACH	MENTS SUMM	ARY OF POROUS ZO	ONES, WELLBORE DIAGE	AM, Directional EOW	report			
36 I hereby certify that	the foregoing and at ached i	aformation is complete and	correct as determined from all av	ailable records		ACC	PTED FOR RECORD	
SIGNED	HILLE	les	TITLE R	egulatory Specialist	DATE11/18/2009			

NMOCD M

	flowing and shut-in pressures, a							
FORMATION	ТОР	воттом	DESCRIPTION, C	CONTENTS, ETC	NAME	тор		
-						NAME	MEASURED DEPTH	TRUE VERTICAL DE
						LEWIS	3682'	3464'
						CLIFFHOUSE	5562'	5344'
						POINT LOOKOUT	5814'	5596'
,						MANCOS	6270'	6051'
						GRANEROS	7903'	7684'
						DAKOTA	8031'	7812'
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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

-					everse side)	N	ation and lease no. JMSF-078767
,	WELL COMDI	ETION OD DE	COMPLETION R	EDADT AND I	00*	6 IF INDIAN,ALLO	TTEE OR
la. TYPE	OF WELL FOIL WELL	X GAS WELL	DRY OTHER	R	ECEIVEL	7 UNIT AGREEME	NT NAME Rosa Unit
	VEW WELL WORKS	OVER DEEPEN PL	UG BACK DIFF RESVR	. OTHER		Kepat	to lease
2. NAME	OF OPERATOR	WILLIAMS PRO	DUCTION COMPANY	r	OV 20 2009	8 FARM OR LEASE Ro	NAME, WELL NO osa Unit #019D
3 ADDR	ESS AND TELEPHONE N	0		- Fam:	of Land Manageme Ington Field Office	9. API WELL NO	
4. LOCA	ATION OF WELL (D		Aztec, NM 87410 (505 and in accordance with	) 634-4208	The state of the s	50-0.	99-30781 <b>-66C2</b> POOL, OR WILDCAT
At Su At to	rface: 1980' FSL & 6	660' FWL, sec 24, T3			is)	F	Basin Mancos
						11 SEC, T,R,M, O SURVEY OR AI Sec 2	
				14 PERMIT NO.	DATE ISSUED	12 COUNTY OR R10 Arriba	13. STATE New Mexico
15. DATE SPUDDED 8-25-09	16 DATE T.D. REACHED 9-8-09	1	D (READY TO PRODUCE) /16/09	18 ELEVATIONS (DK	, RKB, RT.GR,ETC)* 11' GR	19 ELEVATION CA	SINGHEAD
20. TOTAL DEPTH,	MD & TVD / 7944' TVD	21 PLUG, BACK T.D., 8157' MD / 7937'		22 IF MULTCOMP., HOW MANY 3 *	23 INTERVALS DRILLED BY	ROTARY TOOLS X	CABLE TOOLS
BASIN MAN	COS: 6960' - 7734'		M, NAME (MD AND TVD)*  Commingled v	vith MV & DK per A	ZT-3263		NAL SURVEY MADE DEC 1'09
	AND OTHER LOGS RUN on, Compensated Gar	nma Ray-Density-Ne	utron, Temperature, Ultr	a Sonic Gas Detector	and CBL		ONS.DIV.
	(Report all strings set in wel					<u> </u>	VICT 0
	IZE/GRADE 4", J-55	WEIGHT, LB /FT 40.5#	DEPTH SET (MD)	HOLE SIZE 14-3/4"	TOP OF CEMENT, CEM 300 SX - SU		AMOUNT PULLED
	", K-55	26.4#	3862'	9-7/8"	590 SX – SU		
	", N-80	17.0#	8164'	6-3/4"	360 SX - 349		
J-1/2	, 14-00	17.0#	8104	0-3/4	300 3X - 349	O (CBL)	
29.LINER RECORD					30 TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE 2.375", 4.7#, J-55	DEPTH SET (MD) 8006'	PACKER SET (MD) none
31 PERFORATION R	ECORD (Interval, size, and	number)	.=	32 ACID, SHOT, FRAC	& N-80 EUE 8rd TURE, CEMENT SQUEEZE, I		
Upper Mancos: 8	21 0 34" holes			DEPTH INTERVAL (MD)	AMOU	NT AND KIND OF MA	TERIAL USED
Lower Mancos: 8				6960'-7220'	Frac with 6406# 100	mesh followed w/9	2,349# 40/70 BASF
				7272'-7734'	Frac with 6396# 100 p BASF	mesh BASF follow	ved with 98,292# 40/70
33 PRODUCTION					<b>1</b>		
DATE OF FIRS	T PRODUCTION	PRODU	CTION METHOD (Flowing, ga	is lift, pumping-size and type	e of pump)	WELL STAT	US (PRODUCING OR SI)
			Flow	ing 🖊		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
11/13/09~	2 hr	32/64"	PERIOD				
FLOW TBG PRESS	CASING PRESSURE	CALCULATE	24-HOUR RATE	OIL – BBL	GAS – MCF	WATER - BBL	OIL GRAVITY-API (CORR.)
0	400 lb				886 mcf/d.		
34 DISPOSITION OF	GAS (Sold, used for fuel, ve	nted, etc ) non flaring				TEST WITNESSED B	Y Weldon Higgins
35 LIST OF ATTACH		_	ONES, WELLBORE DIAGI		report		
36 I hereby certally had	the foregoing and attached	P 0 1	correct as determined from all av	vailable records  Regulatory Specialist	DATE	ACCEPTE	D FOR RECORD
SIGITED	<del>~~~</del>	~~~~	IIIAE <u>X</u>	zepararor i phocianar	DUIL	H	Ħ

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cushion used, time tool oper	ZONES (Show all important zone, flowing and shut-in pressures, a	es of porosity and contents thereof and recoveries)	, cored intervals, and all drill-stem, te	sts, including depth interval tested,	38 GEOLOGIC MARKER	S		
(								
FORMATION	ТОР	воттом	DESCRIPTION, O	CONTENTS, ETC	NAME		ТОР	
				t .		NAME	MEASURED DEPTH	TRUE VERTICAL DEPTH
						LEWIS	3682'	3464'
						CLIFFHOUSE	5562'	5344'
						POINT LOOKOUT	5814'	5596'
				,		MANCOS	6270'	6051'
						GRANEROS	7903'	7684'
				,	u.	DAKOTA	8031'	7812'
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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

Expires: reordary 26, 1993

FARMINGTON FIELD OFFICE BY TE SON STEED

	,			1	everse side;		IMSF-078767
						6. IF INDIAN,ALLO	TTEE OR
	WELL COMPL	ETION OR RE	COMPLETION R	EPORT AND L	.OG*	7. UNIT AGREEME	NIL MAN IL.
la. TYPE	OF WELL. I OIL WELL	X GAS WELL	DRY OTHER			7. UNIT AGREEME	Rosa Unit
	OF COMPLETION:	12 0115 11 1111	<b>21.</b>	REU	EWED	1 .	
	VEW WELL WORKS	VER DEEPEN PL	UG BACK DIFF.RESVR			Report	to lease
2 NAMI	OF OPERATOR			NOV	<b>20</b> 2009	8 FARM OR LEASE	NAME, WELL NO
		WILLIAMS PRO	DUCTION COMPANY	7		Ro	sa Unit #019D
3 ADDR	ESS AND TELEPHONE NO	0		Buleau of L	and Management	1	
			Aztec, NM 87410 (505	7 03 1 1200	ton Field Office		اع-30781 - ٥٥٥١
	`		and in accordance with a	any State requiremen	ts)*		POOL, OR WILDCAT
	ırface: 1980' FSL & 6		IN, R6W FSL & 694' FWL, sec 2	4 T31N R6W	,	1	Basin Dakota
	al depth: Same	cported below : 003	152 & 07+ 1 112, 300 2	4, 13114, KOW			
						11 SEC, T,R,M,O	
						SURVEY OR AF	EA 4, T31N, R6W
				14. PERMIT NO.	DATE ISSUED	12 COUNTY OR	13 STATE
	L IV DITTE TO	T in page colon rec	D (DE L DV TO PRODUCE)	IO EL ENATIONS (DVS	DVD DT OD ETTO V	Rio Arriba	New Mexico
15. DATE SPUDDED	16. DATE T.D REACHED		D (READY TO PRODUCE) /16/09	18 ELEVATIONS (DK	, ккв, кт,gr,eтс.)* 11' GR	19 ELEVATION CAS	SINGHEAD
8-25-09	9-8-09	[	710/09	031	II UK	[	
20 TOTAL DEPTH,		21. PLUG, BACK T.D ,		22 IF MULTCOMP, HOW MANY	23 INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
	/ 7944' TVD	8157' MD / 7937'		3 *	DALLED B1	х	
	ferval(s), of this com OTA: 8031' – 8149'		M, NAME (MD AND TVD)*	with MV & MC man	A 7T 2262	25 WAS DIRECTION YES	VAL SURVEY MADE
	AND OTHER LOGS RUN	WID	Commingled	with MV & MC per A	421-3203	27 WAS WELL COR	ED
Array Inducti	on, Compensated Gan	nma Ray-Density-Ne	utron, Temperature, Ultr	a Sonic Gas Detector	and CBL	No	•
28 CASING REPORT	(Report all strings set in well	0				<u> </u>	
CASING S	SIZE/GRADE	WEIGHT, LB /FT	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEM		AMOUNT PULLED
	4", J-55	40.5#	313'	14-3/4"	300 SX - SI	URFACE	
7-5/8	", K-55	26.4#	3862'	9-7/8"	590 SX – SI	URFACE	
5-1/2	", N-80	17.0#	8164'	6-3/4"	360 SX - 34	90' (CBL)	
· · · · · ·							
29 LINER RECORD					30. TUBING RECORD	<u> </u>	
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2.375", 4.7#, J-55 & N-80 EUE 8rd	8006'	none
31. PERFORATION R	ECORD (Interval, size, and i	number)			TURE, CEMENT SQUEEZE,		
Dakota: Total o	f 78, 0.34" holes			DEPTH INTERVAL (MD)	AMOU	JNT AND KIND OF MA	TERIAL USED
	- · - <b>,</b> - · - · - · - · · · · · · · · · · · ·						1 11 (1000)
				8031'-8149'	mesh BASF		owed with 64,277# 40/70
						KCVI	DEC 1'09
							ONS.DIV.
						1. £i 13	was the same of a
33 PRODUCTION					······································	D	IST. 3
DATE OF FIRS	T PRODUCTION	PRODU	CTION METHOD (Flowing, ga	s lift, pumping-size and type	of pump)	WELL STAT	US (PRODUCING OR SI)
			Flow	ing		SI – w	aiting on tie-in
DATE OF TEST	TESTED	CHOKE SIZE	PROD'N FOR TEST	OIL - BBL.	GAS – MCF	WATER - BBL	GAS-OIL RATIO
11/13/09	2 hr	32/64"	PERIOD				
11/13/07		22.31					
FLOW TBG PRESS	CASING PRESSURE	CALCULATED	24-HOUR RATE	OIL - BBL	GAS – MCF	WATER - BBL	OIL GRAVITY-API (CORR.)
0	400 lb			Ì	575 mcf/d		
34 Dieboermon or		ated atc.) neg former				TECT WITHEOUT D	/ Waldon Hagana
34. DISPOSITION OF 35 LIST OF ATTACH	GAS (Sold, used for fuel, ver		NES, WELLBORE DIAGE	AM Directional FOW	renort		
r 1	/	7	correct as determined from all av			L ACCE	PIED FOR BECORD
20 1 nereby central (ulti	Here Areston Byand Suracuetu t	inpripation is complete and t	Torrect as actermined from all av	anavie iccords		Ш	l l

	FORMATION	ТОР	воттом	DESCRIPTION.	CONTENTS, ETC	NAME	ТОР		
LEWIS 3682' 3464' CLIFFHOUSE 5562' 5344' POINT LOOKOUT 5814' 5596' MANCOS 6270' 6051' GRANEROS 7903' 7684' DAKOTA 8031' 7812'							NAME		TRUE VERTICAL DEP
CLIFFHOUSE 5562' 5344' POINT LOOKOUT 5814' 5596' MANCOS 6270' 6051' GRANEROS 7903' 7684' DAKOTA 8031' 7812'						-	LEWIS		3464'
MANCOS 6270' 6051' GRANEROS 7903' 7684' DAKOTA 8031' 7812'							Y.		
GRANEROS 7903' 7684' DAKOTA 8031' 7812'				:			POINT LOOKOUT		
DAKOTA 8031' 7812'							MANCOS	6270'	6051'
							GRANEROS	7903'	7684'
							DAKOTA	8031'	7812'
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