In Lieu of Form 3160-4 (July 1992)

SIGNED

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

RECEIVED

(See other instructions on SESPIND 1 2011

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

5 LEASE DESIGNATION AND LEASE NO

NMSF-078771 Farmington Field Unice 6 IF INDIAN ALLOTTEE OR WELL COMPLETION OR RECOMPLETION REPORT Bureau of Land Managemen. 7 UNIT AGREEMENT NAME 1a TYPE OF WELL GOIL WELL XGAS WELL TYPE OF COMPLETION NMNM-284070 OTHER NEW WELL WORKOVER DEEPEN PLUG BACK DIFF RESVR NAME OF OPERATOR 8 FARM OR LEASE NAME, WELL NO WILLIAMS PRODUCTION COMPANY Rosa Unit #014D ADDRESS AND TELEPHONE NO 9 API WELL NO 30-039-31054 - DOCI PO Box 640, Aztec, NM 87410 (505) 634-4208 LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* 10. FIELD AND POOL, OR WILDCAT SURF 1020' FNL & 1515' FEL BHL 418' FNL & 347' FEL SEC 23 T31N R6W 14 PERMIT NO DATE ISSUED 12 COUNTY OR 13 STATE New Мехко Rio Arriba 15 DATE SPUD 16 DATETD 17 DATE COMPLETED (READY TO PRODUCE) 18 ELEVATIONS (DK, RKB, RT, GR, ETC) 19 ELEVATION CASINGHEAD 6/29/11 REACHED 8/31/11 6287' GR 7/7/11 20 TOTAL DEPTH. 21 PLUG, BACK T D, MD & TVD 22 IF MULTCOMP. 23 INTERVALS ROTARY TOOLS CABLE TOOLS 8189' MD 7950' TVD 8206' MD HOW MANY DRILLED BY 7967' TVD 24 PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD) 25 WAS DIRECTIONAL SURVEY MADE Basın Dakota 8076'-8144' 26 TYPE ELECTRIC AND OTHER LOGS 27 WAS WELL CORED Array Induction, Spectral Density/Dual Spaced Neutral, GR, CBL NO 28 CASING REPORT (Report all strings set in well) TOP OF CEMENT, CEMENTING RECORD AMOUNT PULLED CASING SIZE/GRADE WEIGHT, LB /FT DEPTH SET (MD) HOLE SIZE 9-5/8" K-55 36# 344 12 1/4" 165 SX - SURFACE 430 SX SURFACE 445 SX -270 36 20 4 1/2", N-80 11.6# 8204 6-1/4" 29 LINER RECORD TOP (MD) BOTTOM (MD) SACKS CEMENT* SCREEN (MD) DEPTH SET (MD) PACKER SET (MD) SIZE 2.375", 4.7#, N-80, EUE 8rd 32 ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC DEPTH INTERVAL (MD) Dakota: - 18, 0.34" holes Frac with 5000# 100 mesh sand followed with 70,300# 30/70 mesh arizona sand 8076'-8144' ROWN SEP 6 11 1 OIL CONS. DIV. 33 PRODUCTION MV/DK COMMINGLES PER DHC-3639-AZ DATE OF FIRST PRODUCTION PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump) WELL STATUS (PRODUCING OR SI) 8/22/11 DATE OF TEST CHOKE SIZE PROD'N FOR TEST OIL - BBL GAS - MCF WATER - BBL GAS-OIL RATIO PERIOD FLOW TBG PRESS CASING PRESSURE CALCULATED 24-HOUR RATE OIL - BBL GAS - MCF WATER - BBL OIL GRAVITY-API (CORR) 34 DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TO BE SOLD TEST WITNESSED BY 35 LIST OF ATTACHMENTS SUMMARY OF POROUS ZONES, WELLBORE DIAGRAM EOW report 36 I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

DATE _9/1/11

SEP 0 1 2011

FARMINGTON FIELD OFFICE BY

ACCEPTED FOR RECORD

NMOCD W

TITLE PERMIT SUPV

JMMARY OF POROUS shion used, time tool ope	OF POROUS ZONES (Show all important zones of porosity and contents thereof, cored intervals, and all drill-stem, tests, including depth interval tested, time tool open, flowing and shut-in pressures, and recoveries)		38 GEOLOGIC MARKERS					
FORMATION	ТОР	вотном	DESCRIPTION, O	DESCRIPTION, CONTENTS, ETC.		ТОР		
						NAME	MEASURED DEPTH	TRUE VERTICAL DE
						PICTURED CLIFFS	3363'	3135'
						CLIFFHOUSE	5566'	5328'
						MENEFEE	5615`	5377'
						POINT LOOKOUT	5834'	5596'
						MANCOS	6350'	6111
						GRANEROS	7939'	7700°
						DAKOTA	8071'	7832 [°]
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				i				

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO 1004-0137
Expues February 28, 1995

(See other instructions on reverse side)

SEP 01 2011

5 LEASE DESIGNATION AND LEASE NO NMSF-078771

TYPE OF WELL COIL WELL 2634 WILL DRY OTHER Bureau of Land Managem U,UNIT AGREEMENT NAME Real Unit Non-Key Real U
Type Of COMPLETION X NEW WELL WORKOVER DEEPEN PLUG BACK DIFF RESVE* OTHER NAME OF OPERATOR S FARM OR LEASE NAME. WELL NO Road Unit #014D
2 NAME OF OPERATOR WILLIAMS PRODUCTION COMPANY 3 ADDRESS AND TELEPHONE NO 3 ADDRESS AND TELEPHONE NO 4 LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* 4 LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* 5 DATE SPUD 16 DATE TD 17 DATE COMPLETED (READY TO PRODUCE) 18 ELEVATIONS (DK. RKB. RT.GR.ETC.)* 20 TOTAL DEPTH. 21 PLUG. BACK TD. ADR TVD 22 IF PLUG. BACK TD. ADR TVD 23 INTERVALS, D. STATE ROAmba 21 PLUG. BACK TD. ADR TVD 22 IF MULTCOMP. 23 INTERVALS 24 PRODUCING INTERVALS, D. ST FILL COMPLETION - TOP. BOTTOM, NAME (MD AND TVD)* 25 TYPE ELECTRIC AND OTHER LOGS Array Induction. Spectral Density/Boal Spaced Neutral, GR. CBL 26 TYPE SECTED AND THERE LOGS Array Induction. Spectral Density/Boal Spaced Neutral, GR. CBL 27 TK-S5 28 ST STS 29 LINES RECORD 29 LINES RECORD 30 TUD 30
2 NAME OF OPERATOR WILLIAMS PRODUCTION COMPANY 3 ADDRESS AND TELEPHONE NO P O Box 640, Azrec. NM 57410 (505) 634-4208 4 LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* 5 LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* 6 LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* 8 LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* 8 LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* 8 LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* 10 FIELD AND FOOL, OR WILLDCAT 8 Blanco MV 114 PERMIT NO 12 LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* 13 DATE SPUD 14 PERMIT NO 15 DATE ISSUED 16 DATE ISSUED 17 LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* 18 ELEVATIONS (DK. R.KB. RT.G.E.C.C.)* 19 ELEVATION CASINCHEAD 20 TOTAL DEPTH 20 TOTAL DEPTH 20 TOTAL DEPTH 21 PLUG BACK TD, ND & TOD 22 I PLUG BACK TD, ND & TOD 23 INTERVALS, D & THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)* 24 PRODUCING INTERVALS, D & THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)* 25 LYPE ELECTEC AND OTHER LOGS Array Induction. Spectral Density/Deal Spaced Neutral, GR. CBL. 26 LYPE AND ARRAY (LAND COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)* 27 WAS WELL CORED NO 28 CASING SEPECRADE 29 LINES RECORD 30 TUBING RECORD 31 TUBING RECORD 31 TUBING RECORD 32 ACAD, SHOT, FRACTURE, CEMENT SO, BUE DEPTH SET (MD) 33 ACAD, SHOT, FRACTURE, CEMENT SO, BUE DEPTH SET (MD) 34 AND
3 ADDRESS AND TELEPHONE NO P O Box 640, Azrec. NM 87410 (505) 634-4208 4 LOCATION OF WELL (Report location clearly and in accordance with any State sequements)* SDKF 1020 P F LL. \$1315 FEL. BHL 418' FNL & 347' FEL SEC 23 T31N R6W 14 PERMIT NO DATE ISSUED 16 DATE TD 17 DATE COMPLETED (READY TO PRODUCE) 8/3/1/1 18 ELEVATIONS (DK. RKB. RT.GR.ETC.)* 20 TOTAL DEFTH. 8/30' ND 21 PLUG. BACK TD, MD & TVD 8/18' ND 8/18'
PO Box 640, Aztec, NM 87410 (505) 634-4208 30-039-31054 = >>>CQ
4 LOCATION OF WELL (Report location clearly and in accordance with any State (equirements)* SURF 1020° FNL & 1515° FEL BIH. 418° FNL & 347° FEL SEC 23 T31N R6W 14 PERMIT NO
SURF 1020 FNL & 1315 FEL
14 PERMIT NO DATE ISSUED 12 COUNTY OR ROAmba 13 STATE New Mexico 15 DATE SPUD 16 DATE T
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20 TOTAL DEPTH
20 TOTAL DEPTH. 21 PLUG, BACK TD, MD & TVD 22 IP MULTCOMP., 180° MD 7950° TVD 24 PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM. NAME (MD AND TVD)* 25 Blanco MV 5588°-6060 26 TYPE ELECTRIC AND OTHER LOGS Array Induction, Spectral Density/Dual Spaced Neutral, GR, CBL 26 CASING SIZE/GRADE WEIGHT, LB /FT DEPTH SET (MD) 9-5/8",K-55 36# 344° 12 1/4" 165 SX - SURFACE 4 1/2", N-80 11 6# 8204° 4 1/2", N-80 11 6# 8204° 4 1/2", N-80 29 LINER RECORD SIZE TOP (MD) BOTTOM (MD) SACKS CEMENT* SCREEN (MD) 21 TUBING RECORD 8134° 12 ACID. SHOT, FRACTURE, CEMENT SQUEZE, ETC 132 ACID. SHOT, FRACTURE, CEMENT SQUEZE, ETC DEPTH SET (MD) 5588°-5790' Frac with 17,100# 30/70 Ottawa Sand followed with 83,000# 20/40 PSA sand
7967 TVD
Blanco MV 5588'-6060
26 TYPE ELECTRIC AND OTHER LOGS Array Induction. Spectral Density/Dual Spaced Neutral, GR, CBL 28 CASING REPORT (Report all strings set in well) CASING SIZE/GRADE WEIGHT, LB /FT DEPTH SET (MD) HOLE SIZE TOP OF CEMENT, CEMENTING RECORD AMOUNT PULLED 9-5/8",K-55 36# 344" 12 1/4" 165 SX - SURFACE 7", K-55 23# 3828" 8 3/4" 430 SX SURFACE 4 1/2", N-80 11 6# 8204' 6-1/4" 445 SX - 23# 36 20 29 LINER RECORD SIZE TOP (MD) BOTTOM (MD) SACKS CEMENT* SCREEN (MD) SIZE DEPTH SET (MD) PACKER SET (MD) 29 LINER RECORD SIZE TOP (MD) BOTTOM (MD) SACKS CEMENT* SCREEN (MD) 2 375", 4 7#, N-80, EUE 8134' none 8rd 32 ACID. SHOT, FRACTURE. CEMENT SQUEEZE, ETC DEPTH INTERVAL (MD) 15588"-5790' Frac with 17,100# 30/70 Ottawa Sand followed with 85,000# 20/40 PSA sand
Array Induction. Spectral Density/Dual Spaced Neutral, GR, CBL 28 CASING REPORT (Report all strings set in well) CASING SIZE/GRADE WEIGHT, LB /FT DEPTH SET (MD) HOLE SIZE TOP OF CEMENT, CEMENTING RECORD AMOUNT PULLED 9-5/8" K-55 36# 344' 12 1/4" 165 SX - SURFACE 7" K-55 23# 3828' 8 3/4" 430 SX SURFACE 4 1/2" N-80 11 6# 8204' 6-1/4" 445 SX - 227 36 20 29 LINER RECORD SIZE TOP (MD) BOTTOM (MD) SACKS CEMENT* SCREEN (MD) SIZE DEPTH SET (MD) PACKER SET (MD) 2 375", 4 7#, N-80, EUE 8134' none 8 32 ACID. SHOT, FRACTURE, CEMENT SQUEEZE, ETC DEPTH INTERVAL (MD) MV 2nd Stage - 30, 0.34" holes Frac with 17, 100# 30/70 Ottawa Sand followed with 85,000# 20/40 PSA sand
CASING SIZEGRADE WEIGHT, LB /FT DEPTH SET (MD) HOLE SIZE TOP OF CEMENT, CEMENTING RECORD AMOUNT PULLED
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30 TUBNG RECORD 30 TUBNG R
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2 375", 4 7#, N-80, EUE 8134" none 32 ACID. SHOT, FRACTURE, CEMENT SQUEEZE, ETC DEPTH INTERVAL (MD) MV 2nd Stage - 30, 0.34" holes Frac with 17,100# 30/70 Ottawa Sand followed with 85,000# 20/40 PSA sand Frac with 9900# 30/70 Ottawa sand followed with 84,100# 20/40 PSA sand
Std
DEPTH INTERVAL (MD) MV 2nd Stage - 30, 0.34" holes Frac with 17,100# 30/70 Ottawa Sand followed with 85,000# 20/40 PSA sand Frac with 9900# 30/70 Ottawa sand followed with 84,100# 20/40 PSA sand
MV 2nd Stage - 30, 0.34" holes (MD) Frac with 17,100# 30/70 Ottawa Sand followed with 85,000# 20/40 PSA sand Frac with 9900# 30/70 Ottawa sand followed with 84 100# 20/40 PSA sand
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Frac with 9900# 30/70 Ottawa sand followed with 84 100# 20/40 PSA sand
MV 1st Stage- 33, 0.34" holes Frac with 9900# 30/70 Ottawa sand followed with 84,100# 20/40 PSA sand
MV ist Stage- 33, 0.34" holes 5848'-6060' Frac with 9900# 30/70 Ottawa sand followed with 84,100# 20/40 PSA sand
5848 -6060
33 PRODUCTION MV/DK COMMINGLES PER DHC-3639-AZ
DATE OF FIRST PRODUCTION PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump) WELL STATUS (PRODUCING OR SI)
8/19/11
Flowing producing
DATE OF TEST TESTED CHOKE SIZE PROD'N FOR TEST OIL - BBL GAS - MCF WATER - BBL GAS-OIL RATIO PERIOD
FLOW TBG PRESS CASING PRESSURE CALCULATED 24-HOUR RATE OIL - BBL GAS - MCF WATER - BBL OIL GRAVITY-API (CORR.)
FLOW TBG PRESS CASING PRESSURE CALCULATED 24-HOUR RATE OIL – BBL GAS – MCF WATER - BBL OIL GRAVITY-API (CORR)
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34 DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TO BE SOLD 35 LIST OF ATTACHMENTS SUMMARY OF POROUS ZONES, WELLBORE DIAGRAM EOW report 36 Libereby certify that the foregoing and attached information is complete and correct as determined from all available records.
34 DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TO BE SOLD TEST WITNESSED BY 35 LIST OF ATTACHMENTS SUMMARY OF POROUS ZONES, WELLBORE DIAGRAM EOW report
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ACCEPTED FOR RECORD

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FARMINGTON FIELD OFFICE BY

NMOCD

SUMMARY OF POROUS ZO	OF POROUS ZONES (Show all important zones of porosity and contents thereof, cored intervals, and all drill-stem, tests, including depth interval tested, d. time tool open, flowing and shut-in pressures, and recoveries)		38 GEOLOGIC MARKERS					
		,						
						Τ		
FORMATION	ТОР	воттом	DESCRIPTION, CONTENTS, ETC		NAME	ТОР		
						NAME	MEASURED DEPTH	TRUE VERTICAL DEPTH
						PICTURED CLIFFS	3363'	3135'
						CLIFFHOUSE	5566'	5328'
						MENEFEE	5615'	5377'
						POINT LOOKOUT	5834'	5596'
						MANCOS	6350'	6111'
						GRANEROS	7939 [,]	7700 [°]
						DAKOTA .	8071'	7832'
							,	_
	;							

Surface Location: 1020' FNL & 1515' FEL Sec 23 (B), T31N, R06W Rio Arriba, NM

Bottom Hole Location: 418' FNL & 347' FEL Sec 23 (A), T31N, R06W Rio Arriba, NM

Elevation: 6287' GR API # 30-039-31054

Measured Top Depth TVD Pictured Cliffs 3363' 3135' Cliffhouse Ss. 5566' 5328' Menefee 5615' 5377' Point Lookout 5834' 5596' Mancos 6350' 6111' 7939' 7700' Graneros 8071' Dakota 7832'

<u>Upper MV:</u> 5588'-5790' (30, 0.34" holes) frac with 17,100# 30/70 mesh Ottawa sand followed with 85,000# 20/40 PSASand

 $\underline{Lower\ MV:}\ 5848'\text{-}6060'\ (33,\,0.34"\ holes)$ frac with $9900\ \#$ of 30/70 Ottawa sand followed with $84,\!100\ \#$ PSA sand

 $\underline{Dakota:}~8076\text{'-}8144\text{'}~(18, 0. 34\text{''} Holes)~frac with 5000\,\text{\#}$ of 100 mesh sand follow with 70,300\text{\#} of 30/70 Arizona sand

ROSA UNIT #014D BLANCO MV / BASIN DK

Spud: 6/29/11 Completed: 8/31/11

1st Delivery: MV 8/19/11

DK 8/22/11

RAN 63 JTS, 7", 23#, K-55,LTC, CSG SET

RAN 8 JTS, 9-5/8", 36#, K-55, LT&C, CSG

SET @ 344'

@ 3828', FC @ 3780'

Land well at 8134' KB as follows one 2.375" Notched Collar, one joint 2.375", N/80, 4.7 lb, EUE, 8 rnd jt of tbg, one Inline EXPCHK, 1.78" F Nipple @ 8102', 249 jts 2.375", N/80, 4.7 lb, EUE, 8 rnd tbg, (250 total jts)

RAN 197 JTS, 4-1/2",11.6#, N-80, LTC, CSG SET @ 8204', FC @ 8160', MARKER JT @ 5956'

TD @ 8206' MD
TD @ 8189' MD
PBTD @ 8189' MD
PBTD @ 7950' TVD

Hole Size	Casing	Cement	Volume	Top of Cmt
12-1/4"	9-5/8", 36#	165 sxs	297 cu.ft.	Surface
8-3/4"	7", 23#	430 sxs	1018 cu.ft.	Surface
6-1/4"	4-1/2", 11.6#	445 sxs	623 cu.ft.	3620' CBL