APPROVED BY

SUBMIT IN TRIPLICATE\* (Other instructions on Form approved.

Budget Bureau No. 1004-0136

# **UNITED STATES**

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT  APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK  OIL WORK  OIL OF CAME OF COMMENT  OIL OF CAME OF	ecember 1990)	LINUTED OTAT	:e	reverse side)	Expires December 31, 1	1991
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APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK.  TYPE OF WORK  PRILL DEEPEN DEEPEN DEEPEN, OR PLUG BACK.  TOTHER SINGLE S	DEPAR	RTMENT OF THE	INTERIOR	m 25 PM 2: 13	SF- 078766	
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THE OF WEAK  OTHER  SINGLE TONE  WILLIAMS Production Company, LLC  ORAS OF OFFEATOR  WILLIAMS Production Company, LLC  ORAS OF OFFEATOR  WILLIAMS Production Company, LLC  ORAS STATEMENT OF WELL (Report beauter clercy and in accordance with any State requirements):  AUG STATEMENT OF WELL (Report beauter clercy and in accordance with any State requirements):  AUG STATEMENT OF WELL (Report beauter clercy and in accordance with any State requirements):  AUG STATEMENT OF WELL (Report beauter clercy and in accordance with any State requirements):  AUG STATEMENT OF WELL (Report beauter clercy and in accordance with any State requirements):  AUG STATEMENT OF WELL (Report beauter clercy and in accordance with any State requirements):  AUG STATEMENT OF WELL (Report beauter clercy and in accordance with any State requirements):  AUG STATEMENT OF WELL (Report beauter clercy and in accordance with any State requirements):  AUG STATEMENT OF WELL (Report beauter clercy and in accordance with any State of CASING AND CEMERATING PROGRAM  DESTANCE FROM PRODUCED LOCATION TO GEARST WELL.  TERLIANG, COMPLETED, OR APPLIED PROOF THIS LIANS, FT.  6.339' (MECASIVE AND AUGUST OF THIS LIANS, FT.  6.339' (MECASIVE AND AUGUST OF THIS LIANS, FT.  6.339' (MECASIVE AND AUGUST OF THIS LIANS, FT.  7.1853' (MECASIVE AND AUGUST OF THIS LIANS, FT.  6.339' (MECASIVE AND AUGUST OF THIS LIANS, FT.  7.1854' (MECASIVE AND AUGUST OF THIS LIANS, FT.  6.339' (MECASIVE AND AUGUST OF THIS LIANS, FT.  7.1854' (MECASIVE AND AUGUST OF THIS LIANS, FT.  6.339' (MECASIVE AND AUGUST OF THIS LIANS, FT.  6.339' (MECASIVE AND AUGUST OF THIS LIANS, FT.  7.1854' (MECASIVE AND AUGUST OF THIS LIANS, FT.  6.339' (MECASIVE AND AUGUST OF THIS LIANS, FT.  7.1856' (MECASIVE AND AUGUST OF THIS LIANS, FT.  6.339' (MECASIVE AND AUGUST OF THIS LIANS, FT.  7.1856' (MECASIVE AND AUGUST OF THIS LIANS, FT.  8.1856' (MECASIVE AND AUGUST OF T	ADDLICATION E	OR PERMIT TO DE	ILL, DEEPEN, OF	PLUG BACK		
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NAME OF OPENATOR  Williams Production Company. LIC  OF Mills AND PRODUCTION TO SEASOFT TOWN OR POST OFFICE  Surface 1805** EN. Land 1865** FWL.  DISTANCE FROM MICROSED DEJOCATION TO SEASOFT TOWN OR POST OFFICE  OF MILLS AND DESCRIPTION FROM MILLS TOWN OR POST OFFICE  OF MILLS AND DESCRIPTION FROM MILLS TOWN OR POST OFFICE  OF MILLS AND DESCRIPTION FROM MILLS TOWN OR POST OFFICE  OF MILLS AND DESCRIPTION FROM MILLS TOWN OR POST OFFICE  OF MILLS AND DESCRIPTION FROM MILLS TOWN OR POST OFFICE  OF MILLS AND DESCRIPTION FROM MILLS TOWN OR POST OFFICE  OF MILLS AND DESCRIPTION FROM MILLS TOWN OR POST OFFICE  OF MILLS AND DESCRIPTION FROM MILLS TOWN OR POST OFFICE  OF MILLS AND DESCRIPTION FROM MILLS TOWN OR POST OFFICE  OF MILLS AND DESCRIPTION FROM MILLS TOWN OR POST OFFICE  OF MILLS AND DESCRIPTION FROM MILLS TOWN OR POST OFFICE  OF MILLS AND DESCRIPTION FROM MILLS TOWN OR POST OFFICE  OF MILLS AND DESCRIPTION FROM MILLS TOWN OR POST OFFICE  OF MILLS AND DESCRIPTION FROM MILLS TOWN OR POST OFFICE  OF MILLS AND DESCRIPTION FROM MILLS TOWN OR MILLS TOWN		rm peri rivi				
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WILLIAM PRODUCTION COMPANY, LLC  Williams Production Company, LLC  ADDRESS OF OFFIANCE Williams Production Company, LLC  ADDRESS OF OFFIANCE Williams Production Company, LLC  ADDRESS OF OFFIANCE Williams Production Company, LLC  PROPOSED CASING AND CEMENTING PROGRAM  SURFACE STATES OF WILL (Report location clearly and in accordance with any State requirements)  ALICATION OF WILL (Report location clearly and in accordance with any State requirements)  ALICATION OF WILL (Report location clearly and in accordance with any State requirements)  ALICATION OF WILL (Report location clearly and in accordance with any State requirements)  ALICATION OF WILL (Report location clearly and in accordance with any State requirements)  ALICATION OF WILL (Report location clearly and in accordance with any State requirements)  ALICATION OF ACRESS ASSIGNED TO THIS ASSIGNED TO THIS ASSIGNED TO THIS WILL STATE TO A to any analysis of the ALICATION OF ACRESS INVAINTS (ASSIGNED TO THIS WILL STATE TO ALICATION OF ACRESS INVAINTS (ASSIGNED TO THIS WILL STATE TO ALICATION OF ACRESS INVAINTS (ASSIGNED TO THIS WILL STATE TO ALICATION OF ACRESS INVAINTS (ASSIGNED TO THIS WILL STATE TO ALICATION OF ACRESS INVAINTS (ASSIGNED TO THIS WILL STATE TO ALICATION OF ACRESS INVAINTS (ASSIGNED TO THIS WILL STATE TO ALICATION OF ACRESS INVAINTS (ASSIGNED TO THIS WILL STATE TO ALICATION OF ACRESS INVAINTS (ASSIGNED TO THIS WILL STATE TO ALICATION OF ACCORDANCE WILL STATE TO ALICATION OF ACRESS INVAINTS (ASSIGNED TO THIS WILL STATE TO ALICATION OF ACCORDANCE WILL STATE T	on G	AS TO OTHER	1 1 1 1	-	139B	
MADRES OF PREATOR  Williams Production Company. LLC  ADDRESS OF CREATOR  O Wash Engineering 7415 E. Main St., Farmington, NM 8740 (306) 327-4923  O Wash Engineering 7415 E. Main St., Farmington, NM 8740 (306) 327-4923  CLCATTON OF WILL (Report location clearly and in accordance with any State requirements)  Also 2002  INTEGER 1895 FSL and 1885 FWL  DIPPOPAGE 2009  INTEGER 1895 FSL and 1885 FWL  DIPPOPAGE 2009  INTEGER	WELL WE	rr[			9. API WELL NO.	
SUFFECT PROPERTY OF WELL (Report location clearly and in accordance with any State requirement)  AUG 2002  Walsh Engineering 7415 E. Main St., Farmington, NAI 8740 (1805) 327-4908  Blanco Mesa Verde  1. SEC, T., W., OR BLA.  K. Sec. 17, T31N, R6W  COLF PSL, and 490 F WL.  DESTANCE ROMERS AND DEBECTION FROM NEAREST TOWN OR ROST OFFICE*  DESTANCE ROMERS AND DEBECTION FROM NEAREST TOWN OR ROST OFFICE*  DESTANCE ROMERS AND DEBECTION FROM NEAREST TOWN OR ROST OFFICE*  DESTANCE ROM MICROSCHOLD LOCATION TO NEAREST PROPERTY  DESTANCE ROMER MOCKAGED LOCATION TO NEAREST PROPERTY  DESTANCE ROMEROUS AND SHEETING WAS USED IN THIS WELL.  DESTANCE ROMEROUS DESCRIPTION SHOWN AND WELL BY AND THE PROPOSED DEPTH  DESTANCE ROMEROUS DESCRIPTION TO NEAREST PROPERTY  DESTANCE ROMEROUS DESCRIPTION TO NEAREST PROPERTY  BELLEVATIONS GROW WHICH BY THE PROPOSED DEPTH  DESTANCE ROMEROUS DESCRIPTION TO NEAREST WELL.  DESTANCE ROMEROUS DESCRIPTION TO NEAREST WELL.  DESTANCE ROMEROUS DESCRIPTION TO NEAREST PROPERTY  6339' (measure depth)  ROTTAY OR CASHE ASSURED TO THIS WELL.  320 W.  DESTANCE ROMEROUS DESCRIPTION TO NEAREST PROPERTY  6339' (measure depth)  ROTTAY OR CASHE ASSURED TO THIS WELL.  320 W.  DESTANCE ROMEROUS DESCRIPTION TO NEAREST PROPERTY  6339' (measure depth)  ROTTAY OR CASHE ASSURED TO THIS WELL.  320 W.  DESTANCE ROMEROUS DESCRIPTION TO NEAREST PROPERTY  6339' (measure depth)  ROTTAY OR CASHE ASSURED TO THIS WELL.  320 W.  24 APPROVE DATE WELL THE WELL.  320 W.  25 APPROVE DATE WELL.  320 W.  25 APPROVED DATE WELL THE WELL.  320 W.  26 APPROVED DATE WELL THE WELL.  320 W.  27 APPROVED DATE WELL THE WELL.  320 W.  28 APPROVED DATE WELL THE WELL.  320 W.  32	NAME OF OPERATOR		HC		130043 3	31137
O IF AIST ENGINEERING 7413 E. Main St., Farmington, NAT 8740 (2007)  ALIG 2002  ALIG 200			,	245 B		
LICATION OF WELL (Report location clearly and in secondaric with any state toquid any state	- Walsh Engineering	7415 E. Main St., Farm	ington, NM 8740 <b>X</b> (\$	05) 327-4892 3		erae
Surface 1895 FSL and 1885 PWL proposed Prod. Zone 600F PSL and 2400 FWL DISTANCE RNMIERS MYDIBECTION ROM NEAREST TOWN OR POST OFFICET 23 miles NE of Blanco. NM  DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, TILdus to research die, until this, if any) 1885 11 N. O. OF ACRES MSJANE TO THIS WELL 255.27 11 N. O. OF ACRES ASSIGNED TO THIS WELL 255.27 11 N. O. OF ACRES ASSIGNED TO THIS WELL 255.27 11 N. O. OF ACRES ASSIGNED TO THIS WELL 255.27 11 N. O. OF ACRES ASSIGNED TO THIS WELL 255.27 11 N. O. OF ACRES ASSIGNED TO THIS WELL 255.27 11 N. O. OF ACRES ASSIGNED TO THIS WELL 255.27 12 N. O. OF ACRES ASSIGNED TO THIS WELL 255.27 12 N. O. OF ACRES ASSIGNED TO THIS WELL 255.27 12 N. O. OF ACRES ASSIGNED TO THIS WELL 255.27 12 N. O. OF ACRES ASSIGNED TO THIS WELL 255.27 12 N. O. OF ACRES ASSIGNED TO THIS WELL 260 N. O. OF ACRES MY N. O	LOCATION OF WELL (Report loc	ation clearly and in accordance wit	h any State requirements	Atta	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	
DETANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR FOST OFFICE*  23 miles NE of Blanco. NM  DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL  DISTANCE FROM PROPOSED FROM PROPOSED PROPOSED FROM PROPOSED FROM PROPOSED PROCESS.  DISTANCE FROM PROPOSED PROCRASE FROM PROPOSED PROCRASE FROM PROPOSED FROM PROPOSED PROCRASE FROM TO PROPOSED PROCRASE FROM PROPOSED PROCRASE FROM TO	10051 ECI	and 1885' FWL		ANG 2000	44 G 17 W21M	R6W
DISTANCE IN MILES AND DIRECTOR FROM PRASES TOWN OR POST OFFICE*  23 MILES NE OF BLANCO, NM  23 MILES NE OF BLANCO, NM  16 NO, OF ACRES IN PLASE  OR LEAST LIM, FLIAble potential dig with time, if why)  17 DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, 1885  DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL,	-managed Prod. Zone				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
EDISTANCE FROM PROPOSED LOCATION TO NEAREST MOPERTY OR LEASE LINE, FT (Abo to nearest dig unit line, if any) 2552.71  320 W  BOSTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DEFILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT  639' (measure depth)  ROTARY OR CARLS ASSIGNED TO THIS WELL 25 APPROX DATE WORK WILL START August 1, 2002  404' GR  81ZE OF HOLE  92 APPROX DATE WORK WILL START August 1, 2002  83ZE OF CASING WEIGHTFOOT  82ZE OF CASING WEIGHTFOOT  83ZE OF CASING WEIGHTFOOT  95ZE OLF, Type III with 2% COC1;  12-1/4"  9-55 & "14-3914"  9-55 OLF, 55/35 poz & ~227 cuff. Type  6-14"  4-12"  10.5= +/-6339'  -141 cuff. 50/50 poz & ~187cu.ft. PL. ft.  WIlliams Production Company, LLC proposes to drill a directional well to develop the Mesa Verde formation  at the above described location in accordance with the attached drilling and surface use plans.  This location has been archaeologically surveyed by Independent Contract Archaeology. Copies of their report have been submitted directly to your office.  This APD also is serving as an application to obtain BLM road and pipeline right-of-ways. This well will not require any new access road (see Pipeline & Weil Plats #3 & #4.1"). The well will be accessed by utilizing an any new access road (see Pipeline & Weil Plats #3 & #4.1"). The well will be accessed by utilizing an any new access road (see Pipeline & Weil Plats #3 & #4.1"). The well will be accessed by utilizing an any new access road (see Pipeline & Weil Plats #3 & #4.1"). The well will be accessed by utilizing an any new access road (see Pipeline & Weil Plats #3 & #4.1"). Where it joins San Juna County Road #40.20.  SEC 50 all of T31N	i – – – – – – – – – – – – – – – – – – –	ind 2400' FWL	ST OFFICE*			
DISTANCE FROM PROPOSED LOCATION TO INAREST PROPERTY OR LEASE LINE, FI JABO to measest die, until bus, if any) 1885'  DISTANCE FROM PROPOSED LOCATION-TO INAREST WELL TERLING, COMPLETED, OR APPLIED FOR, ON THAIS LEASE, PT. 50'  DISTANCE FROM PROPOSED LOCATION-TO INAREST WELL TERLING, COMPLETED, OR APPLIED FOR, ON THAIS LEASE, PT. 50'  DISTANCE FROM PROPOSED LOCATION-TO INAREST WELL TERLING, COMPLETED, OR APPLIED FOR, ON THAIS LEASE, PT. 50'  DISTANCE FROM PROPOSED LOCATION-TO INAREST WELL TERLING, COMPLETED, OR APPLIED FOR, ON THAIS LEASE, PT. 50'  DISTANCE FROM PROPOSED LOCATION-TO INAREST WELL TERLING, COMPLETED, OR APPLIED FOR, ON THAIS LEASE, PT. 50'  DISTANCE FROM PROPOSED LOCATION TO INAREST WELL TERLING, COMPLETED, OR APPLIED FOR, ON THAIS LEASE, PT. 50'  DISTANCE FROM PROPOSED LOCATION TO INAREST WELL TERLING, COMPLETED, OR APPLIED FOR, ON THAIS LEASE, PT. 6339' (measure depth)  ROTARY OR CABLE TOOLS  ROTARY  ROTARY OR CABLE TOOLS  ROTARY OR CAB	DISTANCE IN MILES AND DIRECTI	ON FROM NEAREST TOWN OR FO UF of Blanco. NM	STOTICE P			
OR LEASE LINE, IT (Albo to neased rag, tunt in the, it usy)  255271 50 250 Vy  1887 1885 7 108 PROPOSED LOCATION** TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT. 50' 22. APPROX DATE WORK WILL STARTY -August 1, 2002  6404 GR  3. PROPOSED CASING AND CEMENTING PROGRAM  SUZE OF CASING WEIGHTPOOT SETTING DEPTH -352 cu.ft. Type III with 296 CaCl 2  12-14" 9-58" 36# +/-500" -352 cu.ft. Type III with 296 CaCl 2  8-34" 7" 20% +/-43914' -955 cu.ft.65/35 poz & ~221 cu.ft. Type  6-14" 4-12" 10.5# +/-6339' -141 cu.ft.50/50 poz & ~187cu.ft. PL.ft.  Williams Production Company, LLC proposes to drill a directional well to develop the Mesa Verde formation at the above described location in accordance with the attached drilling and surface use plans.  This location has been archaeologically surveyed by Independent Contract Archaeology. Copies of their report have been submitted directly to your office.  This APD also is serving as an application to obtain BLM road and pipeline right-of-ways. This well will not require any new access road (see Pipeline & Well Plats #3 & #4). The well will be accessed by utilizing an existing road that crosses SE-NW. NE-NW sec. 17. SE-SW, NW/SW, SW/NW sec. 8. NE-NE sec. 7.  SE-SE sec. 6. W 2 sec. 5 all of T31N, R6W, SW/SW sec 32, NE-SE, SE/NE, NE-NE sec. 31. SE-SE, NE-SE, SE-NW & NW/NI SHOPLO SEC. 50 SE-NW & NE-NE of sec. 20 of 32N, R1W, where it joins Scan Juan County Road #4020.  THE John C. Thompson, Agent DATE  (Chia space for Federal or State office use)  PERMIT NO.  APPROVAL DATE  TILL John C. Thompson, Agent DATE  (A24/2002	DISTANCE FROM PROPOSED* LOG	CATION TO NEAREST PROPERTY	16. NO. OF ACRES IN LEAS	E	NO. OF ACRES ASSIGNED TO THIS	WELL
DISTANCE FROM PROPOSED LOCATION: TO NEARIST WELL,   19. PROPOSED DEPTH   6339' (measure depth)   Rodary   22. APROX. Date Work Well. START   Algust 1, 2002   23. APROX. Date Work Well. START   Algust 1, 2002   24. APROX. Date Work Well. START   Algust 1, 2002   25. APROX. Date Work Well. START   Algust 1, 2002   26. Aprox. Date Work Well. START   Algust 1, 2002   26. Aprox. Date Work Well. START   Algust 1, 2002   27. APROX. Date Work Well. START   Algust 1, 2002   27. Aprox. Date Work Well. START   Algust 1, 2002   27. Aprox. Date Work Well. START   Algust 1, 2002   27. Aprox. Date Work Well. START   Algust 1, 2002   27. Aprox. Date Work Well. START   Algust 1, 2002   27. Aprox. Date Work Well. START   Algust 1, 2002   27. Aprox. Date Work Well. START   Algust 1, 2002   27. Aprox. Date Work Well. START   Algust 1, 2002   27. Aprox. Date Work Well. START   Algust 1, 2002   27. Aprox. Date Work Well. START   Algust 1, 2002   27. Aprox. Date Work Well. Start   27. Aprox. Date Work Well. Date Work Work   27. Aprox. Date Work World entitle the applicant to conduct operations thereon. Date Work Date work of the start of the subject lease which would entitle the applicant to conduct operations the start of the subject lease which would entitle the applicant to conduct operations the start   27. Aprox. Date Work Well. Date Work Work   27. Aprox. Date Work Work   27. Aprox. Date Work   27. Aprox. Date Work   27. Aprox. Date Work   27. Aprox. Dat	OR LEASE LINE, FT. (Also to nearest	drlg. unit line, if any)	25.	\$27110		
Companies   Comp		ATION* TO NEAREST WELL,	19. PROPOSED DEPTH	20	ROTARY OR CABLE TOOLS	
ELEVATIONS (Show whether DP, RT, GR, etc.) 6404' GR  3. PROPOSED CASING AND CEMENTING PROGRAM  SIZE OF HOLE 12-1/4" 9-5/8" 36# +/-500' -352 cuf. T. Type III with 2% CaCl 2  8-3/4" 7" 20# -/-6339' -/-141 cuft. 50:50 poz & ~221 cuf. T. Type  6-1 4" 4-1/2" 10.5# -/-6339' ~141 cuft. 50:50 poz & ~187cu ft. PL ft.  Williams Production Company. LLC proposes to drill a directional well to develop the Mesa Verde formation at the above described location in accordance with the attached drilling and surface use plans.  This location has been archaeologically surveyed by Independent Contract Archaeology. Copies of their report have been submitted directly to your office.  This APD also is serving as an application to obtain BLM road and pipeline right-of-ways. This well will not require any new access road (see Pipeline & Well Plats ± 3 & ± 4). The well will be accessed by utilizing an existing road that crosses SE NW. NENW sec. 17. SE/SW, NW/SW, SW/NW sec. 8. NENE sec. 7.  SE/SE sec. 6. W 2 sec. 5 all of T31N, R6W, SW/SW sec 32, NE/SE, SE/NE, NE/NE sec. 31, SE/SE, NE/SE, SE/NW & NW/NI Sec. 30 all of 132N, R6W & NE/NE of sec. 25 of 32N, R/W where it joins San Juan County Road ± 4020.  The Above SPACE Describe to General data on guisapurface locations and measured and true vertical depths. Give blowout preventer program, if any.  TILLE John C. Thompson, Agen DATE  Chaster of the section of the supplicant to conduct operations thereon.  APPROVAL DATE	DRILLING, COMPLETED, OR APPL	LIED FOR ON THIS LEASE, FT.	63	39' (measure depth)	Rotary	
SIZE OF HOLE   SIZE OF CASING   WEIGHT/FOOT   SETTING DEPTH   QUANTITY OF CEMENT	50'		0.5	3) (III )	22. APPROX. DATE WORK WILL S	START*
SIZE OF HOLE  SIZE OF CASING  SIZE OF CASING  SIZE OF CASING  12-1/4"  9-5:8"  36#  +/-500'  -352 cu.fl. Type III with 2% CaCl <sub>2</sub> 8-3-4"  7"  20#  +/-3914'  -955 cu.fi.65/35 poz & -221 cu.fi.Type  6-1.4"  4-1/2"  10.5#  -/-6339'  -141 cu.fi.50/50 poz & -187cu.ft. PL.f.  Williams Production Company, LLC proposes to drill a directional well to develop the Mesa Verde formation at the above described location in accordance with the attached drilling and surface use plans.  This location has been archaeologically surveyed by Independent Contract Archaeology. Copies of their report have been submitted directly to your office.  This APD also is serving as an application to obtain BLM road and pipeline right-of-ways. This well will not require any new access road (see Pipeline & Well Plats #3 & #4). The well will be accessed by utilizing an existing road that crosses SE/NW. NE/NW sec. 17. SE/SW, NW/SW, SW/NW sec. 8. NE/NE sec. 7.  SE/SE sec. 6. W 2 sec. 5 all of T31N, R6W. SW/SW sec 32, NE/SE, SE/NE, NE/NE sec. 31. SE/SE, NE/SE, SE/NW & NW/NI SE/SE SE/SACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone.  This John C. Thompson, Agent Date  6/24/2002  This speec for Federal or State office tuse)  APPROVAL DATE  PERMIT NO.  APPROVAL DATE  PERMIT NO.	1. ELEVATIONS (Show whether DF, RT $6404'~GR$				~August 1, 20	02
SIZE OF HOLE  12-1/4" 9-5/8" 36# +/-500' -352 cu.ft. Type III with 2% CaCl 2 12-1/4" 9-5/8" 36# +/-500' -955 cu.ft.65/35 poz & ~221 cu.ft. Type 8-3 4" 7" 10.5:: +/-6339' -141 cu.ft.50/50 poz & ~187cu.ft. PL.ft Williams Production Company, LIC proposes to drill a directional well to develop the Mesa Verde formation at the above described location in accordance with the attached drilling and surface use plans.  This location has been archaeologically surveyed by Independent Contract Archaeology. Copies of their report have been submitted directly to your office.  This APD also is serving as an application to obtain BLM road and pipeline right-of-ways. This well will not require any new access road (see Pipeline & Well Plats #3 & #4). The well will be accessed by utilizing an existing road that crosses SE-NW. NE/NW sec. 17. SE/SW, NW/SW, SW/NW sec. 8. NE/NE sec. 7. SE-SE sec. 6. W 2 sec. 5 all of T31N, R6W, SW/SW sec 32. NE/SE. SE-NE, NE/NE sec. 31. SE/SE, NE/SE, SE/NW & NW/NI sec. 30 all of 132N, R6W & NE/NE of sec. 25 of 32N. R/W where it joins San Juan County Road #4020.  Sec. 30 all of 132N, R6W & NE/NE of sec. 25 of 32N. R/W where it joins San Juan County Road #4020.  TITLE John C. Thompson, Agent DATE  One of the proposal is to drill or deepen directionally, give perturent data on guisaurface locations and measured and true vertical depths. Give blowout preventer program, if any.  APPROVAL DATE PERMITNO.  APPROVAL DATE  PERMITNO.  APPROVAL DATE  APP		PROPOSED CA		G PROGRAM	OUANTITY OF	CEMENT
8-3-4" 7" 20# +/- 3914' -955 cu.ft.65/35 poz & ~221 cu.ft.1ype 8-3-4" 7" 20# +/- 6339' -141 cu.ft.50/50 poz & ~187cu.ft. PL.F.  Williams Production Company, LLC proposes to drill a directional well to develop the Mesa Verde formation at the above described location in accordance with the attached drilling and surface use plans.  This location has been archaeologically surveyed by Independent Contract Archaeology. Copies of their report have been submitted directly to your office.  This APID also is serving as an application to obtain BLM road and pipeline right-of-ways. This well will not require any new access road (see Pipeline & Well Plats #3 & #4). The well will be accessed by utilizing an rexisting road that crosses SENW, NENW sec. 17, SE/SW, NW/SW, SW/NW sec. 8, NE/NE sec. 7, SE/SE, NE/SE, SE/NW, NENW sec. 32, NE/SE, SE/SE, NE/SE, SE/NW & NW/NI sec. 30 all of T31N, R6W, SW/SW sec 32, NE/SE, SE/NE, NE/SE, SE/NW & NW/NI sec. 30 all of T32N, R6W & NE/NE of sec. 25 of 32N, R/W where it joins San Juan County Road #4020.  This speec for Federal or State office use)  PERMITNO  APPROVAL DATE  PERMITNO  APP	SIZE OF HOLE				~352 cu.ft. Type III wi	ith 2% CaCl 2
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24.  SIGNED  TITLE John C. Thompson, Agent DATE  6/24/2002  (This space for Federal or State office use)  PERMIT NO.  Approval DATE	at the above described This location has been submitted directly to y  This APD also is serve any new access road (existing road that crosses 30 all of T32N, F	n archaeologically su your office. ing as an application (see Pipeline & Well . ssses SE/NW, NE/NW . 5 all of T31N, R6W,	rveyed by Independe  to obtain BLM road  Plats #3 & #4). The  sec. 17, SE/SW, NW  SW/SW sec 32, NE/ 25 of 32N, R/W wh	nt Contract Archaeon I and pipeline right-o well will be accessed V/SW, SW/NW sec. 8, SE, SE/NE, NE/NE so ere it joins Sad Juan	f-ways. This well will not by utilizing an NE/NE sec. 7, ec. 31, SE/SE, NE/SE, S. County Road #4020.	port have been ot require
TITLE JOHN C. Infompson, Agent DATE  (This space for Federal or State office use)  PERMIT NO.  Approval DATE  Approval DATE  Approval DATE  Approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	If proposal is to drill or deepen dire	ectionally, give pertinent data on si				24/2002
(This space for Federal or State office use)  PERMIT NO.  Approval DATE  Permit no.  Approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	- (	VETT	TITLE .	John C. Thompson, A	geni date 6/.	24/2002
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CONDITIONS OF APPROVAL, AND DATE DATE	PERMIT NO.  Application approval does not want	rant or certify that the applicant holds le	gal or equitable title to those rights in	the subject lease which would entitle t	ne applicant to conduct operations diereon.	· •
	CONDITIONS OF APPROVAL,	Mineral Lines	ound no		AUL	j - 5

\*See Instructions 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 or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. "GENERAL RECORDER MENTS".

This action is simplect to te inhical and proceedure, review prisuant to 43 OFR 3165.5 and appear pursuant to 43 OFR 3165.4 Divertional Euroly

District I PO Box 1980, Hobbs, NM 88241-1980

District II PO Drawer DD, Artesia, NM B8211-0719

District III 1000 Rio Brazos Rd., Aztec, NM 87410

District IV PO Box 2088, Santa Fe, NM 87504-2088

6W

31N

17

N

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

Form C-102 Revised February 21, 1994 Instructions on back

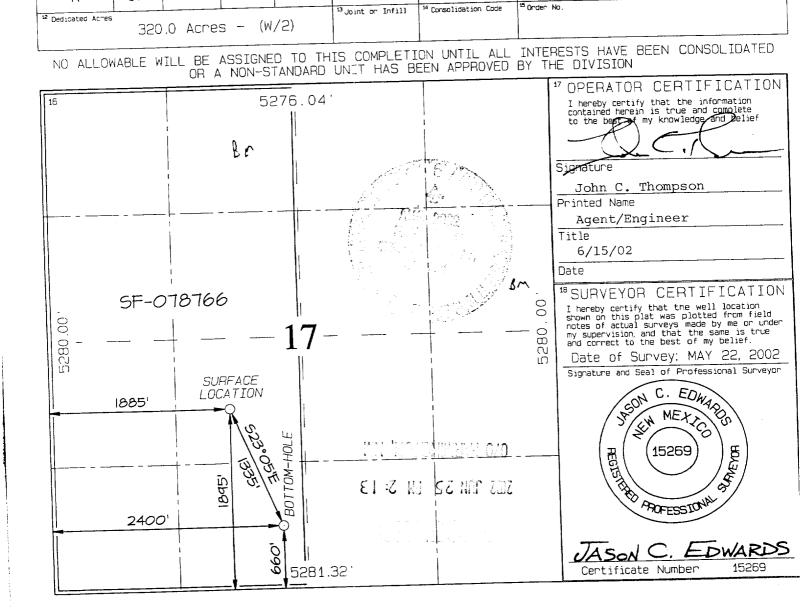
Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

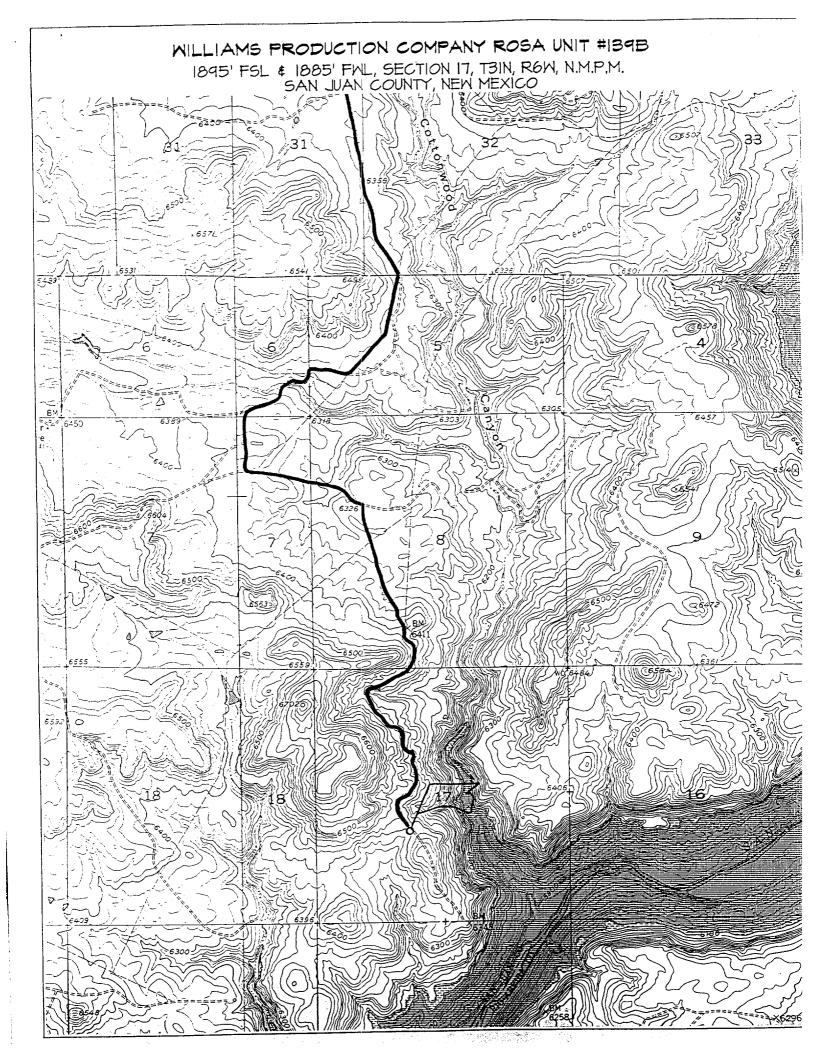
³Pool Name

AMENDED REPORT

# WELL LOCATION AND ACREAGE DEDICATION PLAT

30-045-3/137				<sup>2</sup> Pool Code 72319	l l	BLANCO MESAVERDE			
30-04 Property 1703	Code	110 1			Property ROSA L			1	11 Number 139B
OGRIC N	ZOCOTE NO				perator Name RODUCTION COMPANY			*Elevation 6404	
				1	<sup>0</sup> Surface				County
UL or lat no.	Section 17	Township 31N	Range 6W	Lot Idn	Feet from the	North/South line SOUTH	Feet from the	East/West line WEST	SAN JUAN
UL or lot rc.	Section 4.7	11 F	Range FW	Hole L	ocation I	f Different North/South line SOUTH	From Surf Feet from the 2400	ace East/West line WEST	County SAN JUAN







## WILLIAMS PRODUCTION COMPANY

#### **Operations Plan**

(Note: This procedure will be adjusted on site based upon actual conditions)

DATE:

6/24/2002

FIELD:

Blanco MV

**WELL NAME:** 

Rosa Unit 139B

SURFACE:

BOR

**LOCATION:** 

NE/4 SW/4 Sec 17-31N-6W

**MINERALS:** 

FED

**ELEVATION**:

6404' GR

San Juan, NM

LEASE#

SF-078766

MEASURED DEPTH:

6339'

I. GEOLOGY: Surface formation - San Jose

A. FORMATION TOPS: (KB)

FORMATION TOPS: (1		MD		TVD	<u>MD</u>
Ojo Alamo Kirtland Fruitland	<b>TVD</b> 2376' 2501' 3036'	MD 2472' 2605' 3177'	Cliff House Menefee Point Lookout Mancos	5396' 5446' 5706' 6006'	5579' 5629' 5889' 6189'
Pictured Cliffs Lewis	3261' 3551'	3417' 3724'	Total Depth	61 <b>5</b> 6'	6339'

- B. LOGGING PROGRAM: DIL from intermediate casing to TD. CNL/FDC over zones of interest. (selected intervals by on-site Geologist). Subject to change as wellbore conditions dictate.
  - C. <u>NATURAL GAUGES</u>: Gauge any noticeable increases in gas flow. Record all gauges in Tour book and on morning reports.

#### II. DRILLING

- A. MUD PROGRAM: Clear water with benex to 7" casing point. Convert to a LSND mud to log and run pipe. Treat for lost circulation as necessary. Obtain 100% returns prior to cementing. Notify Engineering of any mud losses.
- **B. BOP TESTING:** While drill pipe is in use, the pipe rams and the blind rams will be function tested once each trip. The anticipated reservoir is expected to be less than 1300 psi, so the rams will be tested to 1500 psi. The surface and intermediate casing strings will be pressure tested to 1500 psi in conjunction with the BOP test before drilling out cement. The drum brakes will be inspected and tested each tour. All tests, inspections and SPR's will be recorded in the tour book as to time and results.

#### III. MATERIALS

#### A. CASING PROGRAM:

#### B. FLOAT EQUIPMENT:

- SURFACE CASING: 9-5/8" notched regular pattern guide shoe. Run (1) standard centralizer on each of the bottom (3) joints of Surface Casing.
- INTERMEDIATE CASING: 7" cement nose guide shoe with a self-fill insert float. Place float collar one joint above the shoe. Install one Turbulent centralizer on each of the bottom (3) joints and one standard centralizer every (4) joints to the surface casing. Total centralizers = (26) regular and (3) turbulent.
- 3. PRODUCTION CASING: 4-1/2" whirler type cement nose guide shoe with a latch collar on top of 20" bottom joint. Place marker joint above 5630'. Place one positive standoff turbolizer every other joint. Total turbolizers is 34.

#### C. CEMENTING:

(Note: Volumes may be adjusted onsite due to actual conditions)

- 1. SURFACE: Slurry: 255sx (352 cu.ft.) of "Type III" + 2% CaCl<sub>2</sub> + ¼ # of cello-flake/sk (Yield = 1.39 cu.ft./sk, Weight = 14.5 #/gal.). The 125% excess should circulate cement to the surface. WOC 12 hours. Test csg to 1500psi.
- 2. INTERMEDIATE: Lead: 460sx (955 ft³) of "Type III" 65/35 poz + 8% gel + 1% CaCl₂ + ¼ # cello-flake/sk (Yield = 2.09 ft³./sk, Weight = 12.1 #/gal.). Tail: 160x (221 ft³) of class "Type III" + 1% CaCl₂ + ¼ # cello-flake/sk. (Yield = 1.39 ft³/sk, Weight = 14.5#/gal.). The 100% excess in lead and tail should circulate cement to the surface. Total volume = 1176 ft³. WOC 12 hours. Run a temperature survey after 8 hours if cement is not circulated to the surface. Test csg. to 1500psi.
- 3. PRODUCTION LINER: Scavenger:  $30s\underline{x}$  of Premium Light HS + 1% FL-52 + .3% CD-32 + 2% KCl (Weight = 11 #/gal). Lead:  $70s\underline{x}$  (141 ft³) of Premium Light HS + 1% FL-52 + .3% CD-32 + 2% KCl. (Yield = 2.02 cu.ft./sk, Weight = 12.5 #/gal.). Tail:  $100\underline{s}\underline{x}$  (187 ft³) of Premium Light HS + 1% FL-52 + .3% CD-32 + 2% KCl + .25 #/sk Celloflake + 4% Phenoseal. (Yield = 2.02 ft³/sk, Weight = 12.5 #/gal.). Displace cement at a minimum of 8 BPM. The 30% excess in lead and tail should cover liner top. Total volume 337 ft³. WOC 12 hours.

# Williams Production Company, LLC Well Control Equipment Schematic for 2M Service

Attachment to Drilling Technical Program

### Typical BOP setup

