# SUBMIT IN TRIPLICATE\*

(Other instructions on reverse side)

Form approved.

Budget Bureau No. 1004-0136
Expires: December 31, 1001

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UNITED STATES	reverse sid
UNITEDSTATES	

	Expu	res:	Dec	embe	r 31,	1991	
1	EACE	DEG	ICN	ATION	ANID	CEDIAL	N

			<b>TMENT OF TH</b> EAU OF LAND MA			<b>L</b>				5. LEASE DESIGNATION AND	O SERIAL NO.
APPLICATION FOR PERMIT TO DRILL OR DEEPEN									NM-010910 6 IF INDIAN, ALLOTTEE OR	TRIBE NAME	
la. TYPE OF WORK	TYPE OF WORK										
	DRILL	$\mathbf{K}$	DEEPI	EN						7. UNIT AGREEMENT NAME	
b. TYPE OF WELL OIL	GAS				en or F		A A T MINY P			Cox Canyon 8. FARM OR LEASE NAME, W	ELL NO
METT	WELL 🔯	OTHER			SINGLE ZONE	K	MULTIPLE ZONE			New Mexico 32-1	
2. NAME OF OPERATOR	R									9 API WELL NO	
W 3. ADDRESS AND TELE	illiams Produc	ction Com	npany, LLC							30-045	
			a							10. FIELD AND POOL, OR WI	LDCAT
			Colorado 81137 Ince with any State requiren		- <del></del>					Blanco MV	
At surface	•		2,010' FEL	•	W/4 NE	(G)				A Section 19,	
At proposed prod zone	•	•	•							l ▲ '	D (D) (
14 DOTANCE IN MILE			2,010' FEL T TOWN OR POST OFFICE	CE*	W/4 NE	/4 (G)	,			G T32N, R11W, N	IMPM 13. STATE
XI.	8.1	4 miles N	W of Cedar Hill	I. NM						San Juan	NM
DISTANCE FROM PR	ROPOSED*				ACRES IN	LEASE				ACRES ASSIGNED	
PROPERTY OR LEAS	SE LINE, FT.									S WELL	
(Also to nearest drig. us		+/- 660°		60	O SED DEPTH	<del>;</del>			320	O acres <b>A/2</b> OR CABLE TOOLS	**
18. DISTANCE FROM PR LOCATION TO NEAL	REST WELL,			19. PROPO	SED DEPIH	l			20. ROTARY	OR CABLE TOOLS	
DRILLING, COMPLE APPLIED FOR, ON TI	ETED, OR HIS LEASE,FT.	+/- 400		+/-	- 5,993°				Ro	otary	
21. ELEVATIONS (Show	whether DF,RT,GR,etc			.,	2,273					APPROX. DATE WORK WILL ST	ART*
		_ 6,581° C	SD.							_ March 15, 2005	
3.			PROPOSED CASIN	NG AND	CEMEN	ΓING PR	OGRAM			_ Water 13, 2003	
SIZE OF HOLE	GRADE, SIZE OF	CASING	WEIGHT PER FOOT	ΓS	SETTING DE	РТН			QUANTIT	TY OF CEMENT	
12-1/4"	9-5/8" K-55		36#	+/	′- 300°		150 sacks Type	III cem	ent + 2% Ca	Cl <sub>2</sub> + 1/4 #/sk. Cello-Flake	s
8-3/4"	7" K-55		20#	+/	'- 2,653°	T	315 sacks Lead	and 50	sacks Tail (s	ee Drilling Plan)	
6-1/4"	4-1/2" K-55		10.5#	+/	-2,553-59	93'	50 sacks Lead	and 145	sacks Tail (s	ee Drilling Plan)	

Other	Info	rmst	ion.

Drilling Plan, Surface Use Plan and Fee Surface Use Agreement are attached.

SEP 2005
PECEIVED CONS. DIV.
DIST. 8

N ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data present proposed new productive zone. If proposal is to drill or deepen directionally, give sertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

SIGNED Don Hamilton TITLE	Agent for Williams	_DATE_	May 5, 2005
(This space for Federal or State office use)			
PERMIT NO.	APPROVAL DATE		
Application approval does not warrant or certify that the applicant holds legal or CONDITIONS OF APPROVAL, If ANY:  APPROVED BY		ld entitle t	the applicant to conduct operations thereon.

\*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 or the

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

District II PO Drawer DD, Artesia, NM 88211-0719

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

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

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

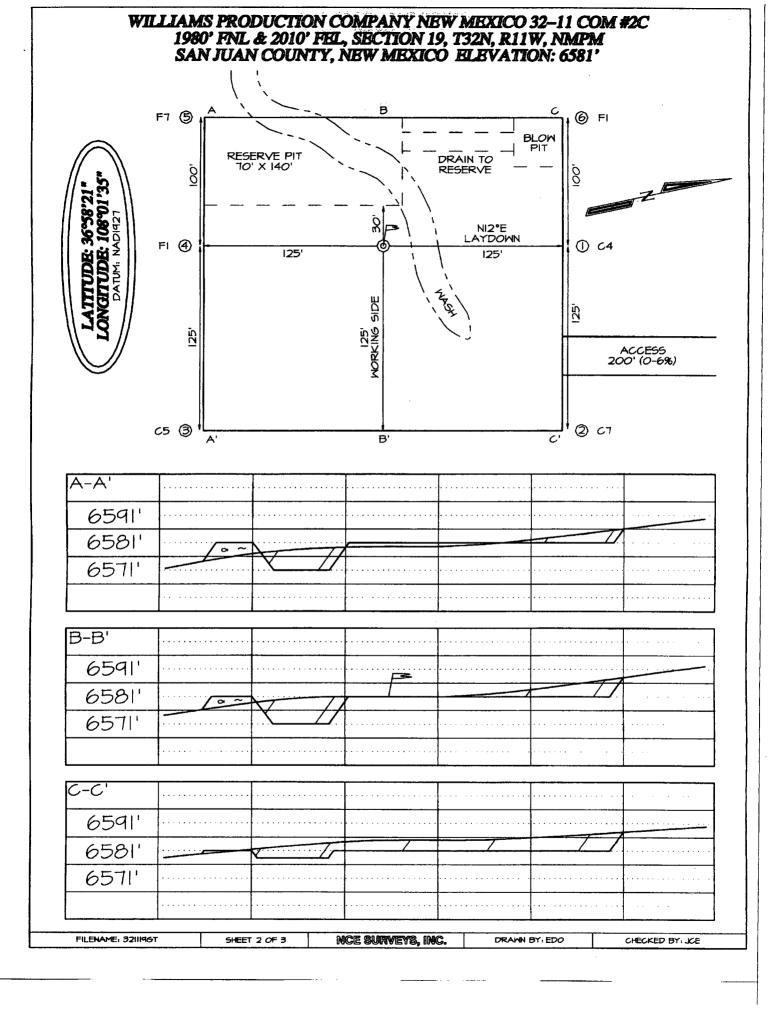
Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

			WELL	LOCAT:	ON AND A	CREAGE DED:	ICATION PL	AT.		
'API Number 'Pool Code 'Pool Name BLANCO MESAVERDE										
Property 17040	perty Code Property Name NEW MEXICO 32-11 COM							* We	ell Number 2C	
'0GRID 1 12078	- 1		Oper Bear Home						levation 6581	
				1	<sup>0</sup> Surface	Location				
ut. or lot no. G	Section 19	Township 32N	Range 11W	Lot Idn	Feet from the North/South line Feet from the East/Net 1980 NORTH 2010 EA					SAN JUAN
	·	11 Bc	ottom	Hole L	ocation I	f Different	From Surf	ace		
UL or lot no.	Section	Township	Range	Lot Ion	Feet from the	North/South line	Feet from the	East/We	est line	County
22 Oedicated Acres 320.0 Acres - (E/2) Soint or Infill Consolidation Code Code No.							<u> </u>	· <b></b>		
NO ALLOW	IABLE W					ON UNTIL ALL EEN APPROVED			EN CO	NSOL IDATED
15 1280.	40 ·	1347	7.72		269	5.44 · y	I hereby containe	certify of the control of the certification of the	that the :	FICATION information nd complete e and belief

LOT 1 480 Signature Hamilton Don Printed Name <u>Agent</u> Tit/le 5-5-05 LOT 2 Date 660' 2010' \*SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. 98 5283. Survey Date: NOVEMBER 9, 2004 RECEIVED Signature and Seal of Professional Surveyor CONS. DIV SEON C. EDWARD DIST. 3 SEN MEXIC 2639.34 LEASE USA PEGISTOR PROFESSION NM-03189 X 70 FARMINGTO RECEIVED 1322.64 1246.74 23 2645.28 Certificate Number 15269

Office	State of New		Form C-103
District I 1625 N. French Dr., Hobbs, NM 88240	Energy, Minerals and N	atural Resources	May 27, 2004 WELL API NO.
District II	OIL CONSERVATION	ON DIVISION	30-045-32888
301 W. Grand Ave., Artesia, NM 88210 District III	1220 South St. F		5. Indicate Type of Lease
000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, NM		Federal
<u>District IV</u> 220 S. St. Francis Dr., Santa Fe, NM 17505	,		6. State Oil & Gas Lease No. NM-010910
SUNDRY NOTICE DO NOT USE THIS FORM FOR PROPOSA DIFFERENT RESERVOIR. USE "APPLICA" PROPOSALS.)		PLUG BACK TO A	7. Lease Name or Unit Agreement Name New Mexico 32-11 Com
. Type of Well: Oil Well Gas	Well X Other	,	8. Well Number 2C
Name of Operator Williams Produc	tion Company	·	9. OGRID Number 120782
Address of Operator	gnacio, CO 81137		10. Pool name or Wildcat Blanco MV
Well Location			Dianco IVI V
Unit Letter G 1,980 feet	from the <b>North</b> line and <b>2,01</b>		ine
	nship 32N Range 1		County San Juan
	<ol> <li>Elevation (Show whether I 6,581' GR</li> </ol>	DR, RKB, RT, GR, etc.,	
or Below-grade Tank Application X or C		>1000'	> 1000
type <u>Drillilng</u> Depth to Groundwater <u>1</u> Liner Thickness <u>12</u> mil <u>Belo</u>	37' Distance from nearest fresh waw-Grade Tank: Volume 10,971		· •
	propriate Box to Indicate		
	•		•
NOTICE OF INTE F ☐ ERFORM REMEDIAL WORK	ENTION TO: PLUG AND ABANDON □	REMEDIAL WOR	SEQUENT REPORT OF:  K
<del></del>	CHANGE PLANS	COMMENCE DRI	
ULL OR ALTER CASING 🔲 🛚	MULTIPLE COMPL	CASING/CEMENT	T JOB 🔲
THER:	П	OTHER:	П
			d give pertinent dates, including estimated date tach wellbore diagram of proposed completion
			0 9 10 11 12 2
			SED
			SEP 2005 PECEIVED DIST. 3
			DIST DIV
			3
			6.621707C77C
			CC 20 202
			e and belief. I further certify that any pit or below- ttached) alternative OCD-approved plan □.
NATURE Don Ham	title	Agent for William	ns DATE <u>May 5, 2005</u>
e or print name Don Hamilton State Use Only	E-mail address: starpoint@et	v.net Telephone No	o. <u>(970) 564-9220</u> SEP 1 2 20
PROVED BY:	/ A TITLE	EPUTY OIL & GAS INSP	
ROVED DI 17 T 18/1	20 A		





# **WILLIAMS PRODUCTION COMPANY**

# **Operations Plan**

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

**DATE:** 

5/6/2005

FIELD:

Blanco MV

**WELL NAME:** 

New Mexico 32-11 #2C

**SURFACE:** 

**FED** 

**LOCATION:** 

SWNE Sec 19-32N-11W

**MINERALS:** 

**FED** 

**ELEVATION:** 

6,581' GR

San Juan, NM

LEASE#

NM-010910

**MEASURED DEPTH: 5,993'** 

I. **GEOLOGY:** Surface formation - San Jose

### A. FORMATION TOPS: (KB)

Ojo Alamo	1,353	Cliff House	4,978
Kirtland	1,398	Menefee	5,133
Fruitland	2,703	Point Lookout	5,493
Picture Cliffs	3,183	Mancos	5,818
Lewis	3,363	TD	5,993
Huerfanito Bentonite	3,883		

#### **B. MUD LOGGING PROGRAM: None**

- C. LOGGING PROGRAM: High Resolution Induction/ GR and Density/ Neutron log from intermediate shoe to TD. Onsite geologist will pick Density/ Neutron log intervals.
- D. NATURAL GAUGES: 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. Use air w/Air Hammer from 7 in. csg.to TD.
- 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:

CASING TYPE	<b>HOLE SIZE</b>	<u>DEPTH</u> (MD)	<b>CASING SIZE</b>	WT. & GRADE
Surface	12-1/4"	+/- 300'	9-5/8"	36# K-55
Intermediate	8-3/4"	+/- 2,653'	7"	20# K-55
Prod. Liner	6-1/4"	+/- 2,553'-5,993'	4-1/2"	10.5# K-55

#### **B. FLOAT EQUIPMENT:**

- 1. <u>SURFACE CASING:</u> 9-5/8" notched regular pattern guide shoe. Run (1) standard centralizer on each of the bottom (4) joints of Surface Casing.
- 2. INTERMEDIATE CASING: 7" cement nose guide shoe with a self-fill insert float. Place float collar one joint above the shoe. Install (1) Turbulent centralizer on each of the bottom (3) joints and one standard centralizer every (3) joints to 2,500 ft. Run (1) Turbulent centralizer at 2,700 ft., 2,500 ft., 2,300ft., 2,000ft., 1,500 ft., and 1,000 ft. (NTL-FRA 90-1).
- 3. PRODUCTION LINER / CASING: 4-1/2" & 5-1/2" whirler type cement nose guide shoe with a latch collar on top of 20' bottom joint. Place marker joint above 5,400'. Place centralizers as needed across selected production intervals.

#### C. CEMENTING:

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

- 1. SURFACE: Slurry: 150sx (205 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 100% excess should circulate cement to the surface. WOC 12 hours. Test csg to 1500psi.
- 2. <u>INTERMEDIATE</u>: Lead 315 sx (657) cu.ft.) of "Type III" 65/35 poz with 8% gel, 1% CaCl<sub>2</sub> and 1/4# cello-flake/sk (Yield = 2.09 cu.ft./sk, Weight = 12.1 #/gal.). Tail 50 sx (70 cu.ft.) of "Type III" with 1/4# cello-flake/sk, and 1% CaCl<sub>2</sub> (Yield = 1.4 cu.ft./sk, Weight = 14.5#/gal.). Use 100% excess in Lead Slurry to circulate to surface. No excess in Tail Slurry. Total volume = 727 cu.ft. Bump Plug to 1,500 psi. Notify engineering if cement is not circulated to surface.
- 3. PRODUCTION LINER: 10 bbl Gelled Water space. Lead: 50sx (130ft<sup>3</sup>) of Premium Light HS + 1% FL-52 + .2% CD-32, 0.1% R-3, 3 #/sk CSE, ½ #/sk cello flake. (Yield = 2.59 cu.ft./sk, Weight = 11.6 #/gal.). Tail: 145 sx (308 ft<sup>3</sup>) of Premium Light HS + 1% FL-52 + .2% CD-32, 0.1% R-3, 3 #/sk CSE, ½ #/sk cello flake and 4% Phenoseal. (Yield = 2.15 ft<sup>3</sup>/sk, Weight = 12.3 #/gal.). Displace cement at a minimum of 8 BPM. The 20% excess in lead and tail should cover 100 ft into intermediate casing. Total volume 438 ft<sup>3</sup>. WOC 12 hours

New Mexico 32-11 #2C Operations Plan Page #3

### **IV COMPLETION**

# A. CBL

1. Run Cement Bond Log across all intervals to be perforated and find Top of Cement behind all casing strings if cement is not circulated to surface.

### **B. PRESSURE TEST**

1. Pressure test 7" & 4-1/2" casing to 3300# for 15 minutes.

# C. STIMULATION

- 1. Perforate the Point Lookout as determined from the open hole logs.
- 2. Stimulate with approximately 80,000# of 20/40 sand in slick water.
- 3. Isolate Point Lookout with a CIBP.
- 4. Perforate the Menefee/Cliff House as determined from the open hole logs.
- 5. Stimulate with approximately 80,000# of 20/40 sand in slick water.
- 6. Test each zone before removing bridge plugs.

# D. RUNNING TUBING

1. <u>Mesa Verde:</u> Run 2-3/8", 4.7#, J-55, EUE tubing with a SN (1.91" ID) on top of bottom joint. Land tubing approximately 25' above the bottom Point Lookout perforation.

Gary Sizemore Sr. Drilling Engineer



# Well Control Equipment Schematic for 2M Service

# Typical BOP setup

