Form 3160-3 (December 1990)

SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1

Budget Bureau No. 1004-0136 Expires: December 31, 1991

UNITED STATES DEPARTMENT OF THE INTERIOR

5. LEASE DESIGNATION AND SERIAL NO.

BUREAU OF LAND MANAGEMENT								NM- 03189 -0/0910	
	APPLICATION I	OR PERMI	T TO	DRILL OR	DEEPEN		6. IF INDIAN, ALLOTTEE O	R TRIBE NAME	
la. TYPE OF WORK			300F	10U 0 00	4 5 7 7		N/A		
	DRILL 🛣	DEEP	FNJ (JAN 3 FA	1		7. UNIT AGREEMENT NAM	E	
b. TYPE OF WELL		DEEL	27.				Cox Canyon		
OIL	GAS			SINGLE STATE	MULTIPLE		8. FARM OR LEASE NAME,	WELL NO.	
WELL	WELL X OTHER		<u>∧ =2</u>	ZONE K	ZONE		New Mexico 32-11 Com #1C		
2. NAME OF OPERATOR	R		Uf	No. 3 Carson Control	3570 71 70 70		9. API WELL NO.	- 2011	
/ w	/illiams Production Cor	mpany, LLC			12 / mm m3/	1/3	3004532804		
3. ADDRESS AND TELE	PHONE NO.				(YY) S	لاكن 🗡	10. FIELD AND POOL, OR W	/ILDCAT	
P.	O. Box 316— Ignacio,	Colorado 8113	7-0316	5	JANIO	المراز	Blanco MV / Basin DK		
4. LOCATION OF WELL	(Report location clearly and in accord	lance with any State requir	ements.*)		10 . A. M. 200	5 U	11. SEC.,T.,R.,M., OR BLK.		
At surface	1 920' FSI	, 805' FWL		NW/4 SW/4 (I	A ME COMME	·, a	Section 20,		
At proposed prod. zone	•	, 805' FWL		NW/4 SW/4 (I	Tend on the field of	, ,		NT (D) (
14. DISTANCE IN MILE	T32N, R11W,	NIMPIM 13. STATE							
A.						$\mathcal{C}^{\mathcal{I}}$			
LIS DISTANCE FROM P		NW of Cedar H				<u>````</u> ````````````````````````````````	San Juan	NM	
LOCATION TO NEA			16. NO.	OF ACRES IN LEASE	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	TO THI	ACRES ASSIGNED S WELL		
PROPERTY OR LEA					a sale of the sale				
(Also to nearest drig. t	1/- 30.) <u> </u>		600			0 acres		
18. DISTANCE FROM P			19. PRO	POSED DEPTH		20. ROTARY	OR CABLE TOOLS		
DRILLING, COMPL APPLIED FOR, ON T					į	_			
	1/- 1,3	00	:	+/- 8,068'			otary		
21. ELEVATIONS (Show whether DF,RT,GR,etc.)						22	APPROX. DATE WORK WILL START*		
6,639° GR							January 15, 2005		
PROPOSED CASING AND CEMENTING PROGRAM									
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FO	от Т	SETTING DEPTH		QUANTI	TY OF CEMENT		
14-3/4"	4" 10-3/4" H-40 32.75# +/- 300' 255 sacks Type III cement + 2% Ca				CaCl ₂ + 1/4 #/sk. Cello-Flakes				
9-7/8"									
6-3/4" 5-1/2" N-80 17# +/- 7,748' 50 sacks Lead and 235 sacks Tail (see Drillin				see Drilling Plan)					
4-3/4" 3-1/2" 9.3# +/- 8,068' 50 sacks Premium Light HS with additives						Iditives (see Drilling Pla	n)		

Other Information:

Drilling Plan and Surface Use Plan are attached.

Pit and Tank Application and Pipeline survey to follow up

Pit and Tank Application and Pipeline survey to follow under separate cover

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 13 CFR 3165.4

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

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

ertinent data on subsurtace location	ons and measured and true vertical depths.	Give blowout preventer program,	ifany.			
signed Don	Hamilton Don Ham	ilton _{TITLE} Age	nt for Williams	DATE_	December 30, 2004	
(This space for Federal or St	ate office use)					
PERMIT NO.		APPRO	VAL DATE			
Application approval do CONDITIONS OF APPROV	es not warrant or certify that the app	icant holds legal or equitable	title to those rights in the subje	ect lease which would entitle	the applicant to conduct operations there	on.
>)	See Instruct	ions 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

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

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

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

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

AMENDED REPORT

2005 JAN

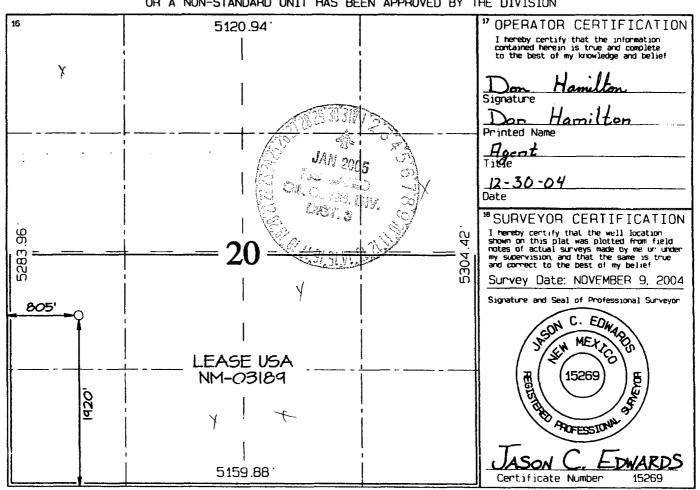
WELL LOCATION AND ACREAGE DEDICATION PLAT

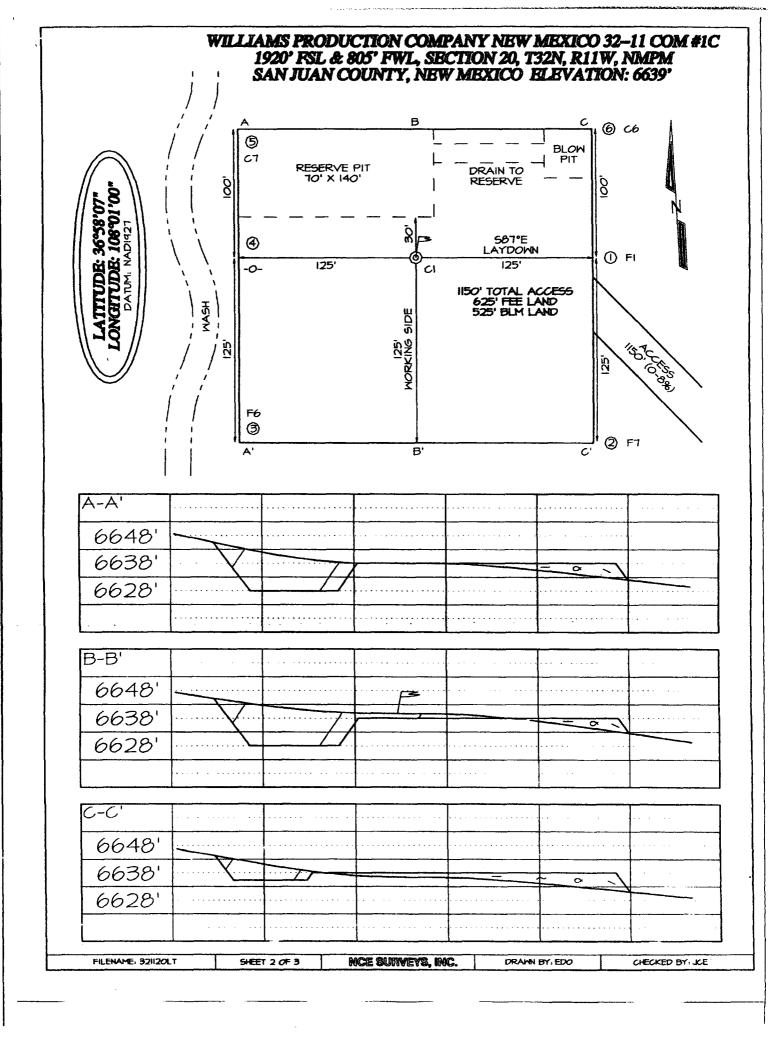
30-045-32804	*Pool Code 72319 / 71599	070 F. Pool Name BLANCO MESAVERDE / BASIN DAKOTA		
*Property Code		operty Name ICO 32–11 COM	Well Number 1C	
120782		erator Name RODUCTION COMPANY	*Elevation	

10 Sunface Location

					" Surrace	Location			
UL or lot no.	Section	Yownship	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	20	32N	11W		1920	SOUTH	805	WEST	SAN JUAN
		11 E	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/West line	County
¹² Dedicated Acres			- (0	(0)	¹³ Joint or Infill	³⁴ Consolidation Code	²⁵ Onder No.		
	320	0.0 Acre	s - (S	/2)	1				

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION







WILLIAMS PRODUCTION COMPANY

Operations Plan

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

DATE:

12/29/2004

FIELD:

Basin DK/BlancoMV

WELL NAME:

New Mexico 32-11 COM #1C

SURFACE:

FED

BH LOCATION:

NWSW Sec 20-32N-11W

MINERALS:

FED

ELEVATION:

6,639' GR

San Juan, NM

LEASE#

NM-03189

MEASURED DEPTH: 8,068'

I. GEOLOGY: Surface formation - San Jose

A. FORMATION TOPS: (KB)

Name	MD	Name	MD
Ojo Alamo	1,453	Cliff House	5,058
Kirtland	1,513	Menefee	5,208
Fruitland	2,868	Point Lookout	5,598
Picture Cliffs	3,288	Mancos	5,928
Lewis	3,468	Gallup	6,963
Huerfanito	3,973	Greenhorn	7,668
		Graneros	7,728
		Dakota	7,793
		Morrison	8,058
		TD	8,068

- B. <u>MUD LOGGING PROGRAM:</u> Mud logger onsite during drilling of Dakota from Protection casing depth to TD.
- C. <u>LOGGING PROGRAM:</u> High Resolution Induction/ GR and Density/ Neutron log over zones of interest from intermediate casing depth to protection casing depth. Cased hole logs over Dakota/ Morrison Onsite geologist will pick Density/ Neutron log intervals logging runs.
- **D.** NATURAL GAUGES: Gauge any noticeable increases in gas flow. Record all gauges in Tour book and on morning reports.

New Mexico 32-11 COM #1C Operations Plan Page #2

II. DRILLING

- A. <u>MUD PROGRAM:</u> 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	HOLE SIZE	DEPTH (MD)	CASING SIZE	WT. & GRADE
Surface	14-3/4"	+/- 300'	10-3/4"	32.75# H-40
Intermediate	9-7/8"	+/-2,773'	7-5/8"	26.4# K-55
Prod. Casing	6-3/4"	+/- 7,748'	5-1/2"	17.0# N-80
Production Liner	4-3/4"	+/-8,068'	3-1/2"	9.3#

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: 3-1/2" & 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.

New Mexico 32-11 COM #1C Operations Plan Page #3

C. CEMENTING:

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

- 1. SURFACE: Slurry: 255sx (356 cu.ft.) of "Type III" + 2% CaCl₂ + 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.
- INTERMEDIATE: Lead 450 sx (906) cu.ft.) of "Type III" 65/35 poz with 8% gel, 1% CaCl₂ and 1/4# cello-flake/sk (Yield = 2.09 cu.ft./sk, Weight = 12.1 #/gal.). Tail 100 sx (139cu.ft.) of "Type III" with 1/4# cello-flake/sk, and 1% CaCl₂ (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 = 1,045 cu.ft. Bump Plug to 1,500 psi. Notify engineering if cement is not circulated to surface.
- 3. PRODUCTION CASING: 10 bbl Gelled Water space. Scavenger: 50sx (130ft³) of Premium Light HS + 1% FL-52 + .2% CD-32, 0.1% R-3, 3 #/sk CSE, ¼ #/sk cello flake and 4% Phenoseal. (Yield = 2.59 cu.ft./sk, Weight = 11.6 #/gal.). Cement: 235 sx (508 ft³) of Premium Light HS + 1% FL-52 + .2% CD-32, 0.1% R-3, 3 #/sk CSE, ¼ #/sk cello flake and 4% Phenoseal. (Yield = 2.15 ft³/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 508ft³. WOC 12 hours
- 4. PRODUCTION LINER: 10 bbl Gelled Water space. Cement: 50 sx (100 ft³) of Premium Light HS + 1% FL-52 + .2% CD-32, 0.1% R-3, 3 #/sk CSE, ½ #/sk cello flake. (Yield = 2.15 ft³/sk, Weight = 12.3 #/gal.). Displace cement at a minimum of 8 BPM. The 20% excess should cover 100 ft above liner top. Total volume 100ft³. WOC 12 hours

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 not circulated to surface..

B. PRESSURE TEST

1. Pressure test 7 5/8" & 5-1/2" casing to 3300# for 15 minutes.

C. STIMULATION

- 1. Stimulate Dakota with approximately 70,000# of 20/40 sand in x-link foam.
- 2. Isolate Dakota with a RBP.
- 3. Stimulate Point Lookout with approximately 9,300# of LiteProp™ sand in slick water.
- 4. Isolate Point Lookout with a RBP.
- 5. Perforate the Menefee/Cliff House as determined from the open hole logs.
- 6. Stimulate with approximately 9,300# of LiteProp™ sand in slick water.
- 7. Test each zone before removing bridge plugs.

D. RUNNING TUBING

1. <u>Dakota</u>: Run 2-1/16", 3.25#, J-55, IJ tubing with 1/2 mule shoe on bottom, SN with pump-out plug on top of adeem joint and 5 Seal Units. Land tubing approximately 100' below top Dakota perf.



Well Control Equipment Schematic for 2M Service

Typical BOP setup

