District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV

State of New Mexico Energy Minerals and Natural Resources

May 27, 2004
Submit to appropriate District Office

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505

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Form C-101

		Santa Fe, NM		TA ND	Santa	Fe, NM 87	505	N DITICIDA		J AMENDED REPORT	
AFFI			Operator Name	and Address			REFE		² OGRID N	ADD A ZONE	
Williams Production Company, LLC c/o New Horizons Consultar P.O. Box 1391					nts, inc.		120782	API Nur	mbg 12(L		
Cortez, CO 81321 Property Code 17033 Property P						Name		30 - 79	7-5	Well No.	
	17033			 	Kosa U		·			185B	
			Proposed Pool 1 nco Mesa Verde					*	osed Pool 2		
	• • • • • • • • • • • • • • • • • • • •	Da	neo Mesa Verde		⁷ Surface	I Basin Dakota Location					
UL or lot no.	Section	······································			· · · · · · · · · · · · · · · · · · ·		East/West l	tine County			
F	16	31N	6W	SE NW			Vorth	2155	West	San Juan	
	⁸ Proposed Bottom Hole Location If Different From Surface										
UL or lot no. K	Section 16	Township 31N	Range 6W	Lot Idn NE SW		1	South line	Feet from the 1975	East/West l	1	
L	119	1 3414	044	. L		ll Informat		1975	West	San Juan	
i	Type Code		12 Well Type Coo		13 Cable	/Rotary		⁴ Lease Type Code		15 Ground Level Elevation	
	N Aultiple		M 17 Propose	d Dooth		R 18 Formation		S 19 Contractor	6428 20 Spud Date		
B	Yes		862		Dal		A	Aztec Well Services		When Approved	
Depth to Gro	undwater	3000	>502<1001	Distance f	rom nearest fres	h water well >	1000'	Distance from	n nearest surf	face water >1000'	
<u>Pit:</u> Line	r: Synthetic	X <u>12</u> n	nils thick Clay	Pit Vo	lume: <u>10,000</u>	bbls	Dri	lling Method:			
Clos	ed-Loop Sy	stem 🔲		····				r X Brine 🔲 Die	sel/Oil-based	☐ Gas/Air ☐	
			21	Propose	d Casing a	nd Cement	Progra	ım			
Hole S	Size	Casi	ng Size		Casing weight/foot Setting Depth			1	Sacks of Cement Estimated		
14-3	/4"	10-	10-3/4"		40.5		00'	460		Surface	
9-5/			7-7/8"		26.4		+/- 4.148' +/-8.628'		75	Surface	
6-3/	6-3/4"		5-1/2"		17.0			245		3.098'	
				 							
Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary. See Attached Operations Plan HOLD C104 FOR Directional Survey											
	rtify that th	e information	given above is t	rue and com	plete to the		OII (ONSEDVA	ייט ואטוי	VISION	
best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines , a general permit , or an (attached) alternative OCD-approved plan X.						OIL CONSERVATION DIVISION Approved by:					
Printed name	Printed name: Don Hamilton					Title:	MY_OL	2000 01007	19 DHT 4	1	
Title: Agent	Title: Agent						ة 1 بع	۷004 _E	Expiration Da	BEC 13 2005	
E-mail Addr	ess: starpo	int@etv.net				complete pit remitration in formation to be subgitted shor					
Date: 12-9-04 Phone: 435-637-4075				Conditions of Approval De to Well 50 the construction							

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

State of New Mexico Energy, Minerals & Natural Resources Departmen

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

Submit to Appropriate District Office

State Lease - 4 Copies

Cistrict II PO Drawer OD. Artesia. NM 88211-0719

District III

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

Fee Lease - 3 Copies

AMENDED REPORT

1000 Rio Brazos Rd., Aztec, NM 87410

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

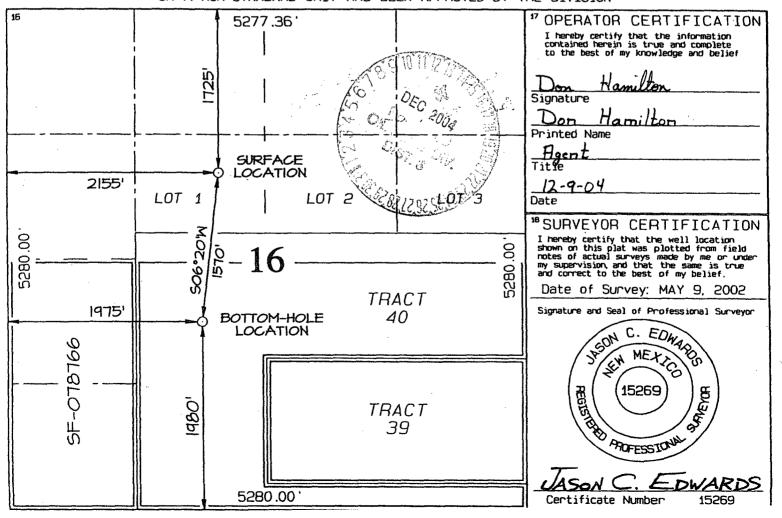
WELL LOCATION AND ACREAGE DEDICATION PLAT

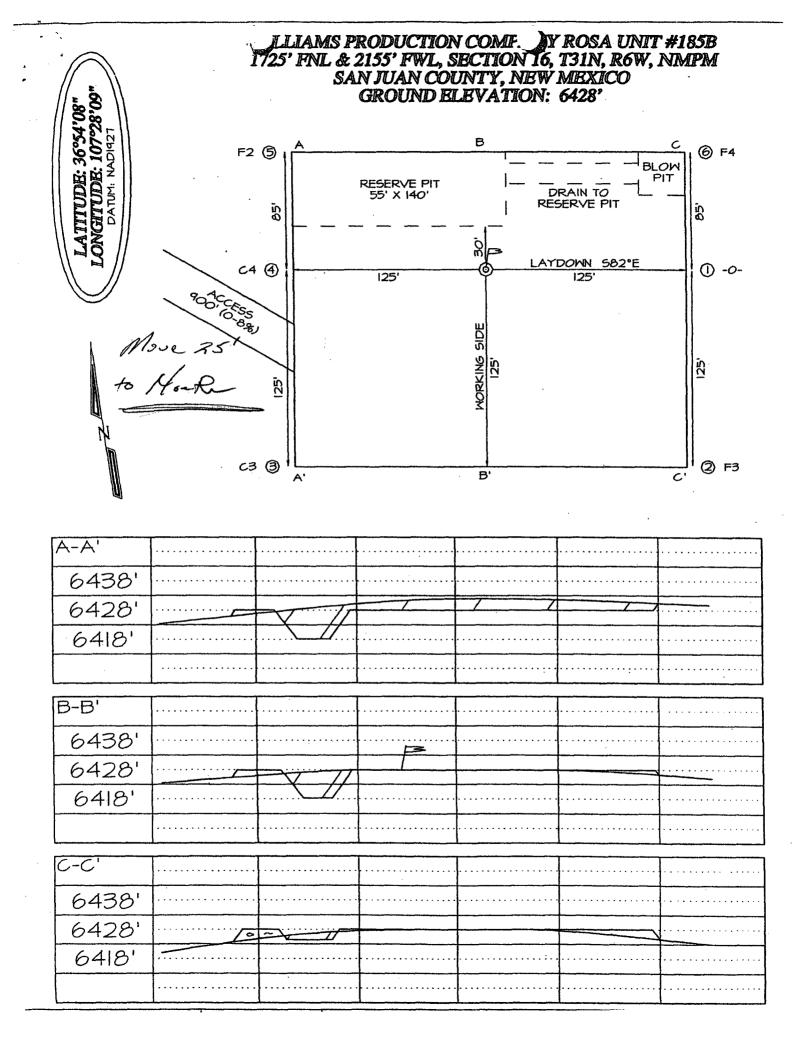
30-045-3	7736	³ Pool Code 72319 \ 71599	Pool Name BLANCO MESAVERDE \ BASIN DAKOTA			
Property Code			operty Name SA UNIT	°Well Number 1858		
'OGRID No. 120782		· •	erator Name IODUCTION COMPANY	*Elevation 6428'		

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	16	31N	Б₩		1725	NORTH	2155	WEST	SAN JUAN
	¹¹ Bottom Hole Lo					f Different	From Surf	ace	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Mest line	County
K	16	31N	6W		1980	SOUTH	1975	WEST	SAN JUAN
320.0 Acres - (S/2)					¹³ Joint or Infill	¹⁴ Consolidation Code	³⁵ Order No.		· · · · · · · · · · · · · · · · · · ·

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:

6/17/2002

WELL NAME:

Rosa Unit 185B

San Juan, NM

FIELD:

Basin DK/Blanco MV

SURFACE LOCATION:

SE/4 NW/4 Sec. 16- T31N-R6W

SURFACE:

BLM

ELEVATION:

6428' GR

MINERALS:

STATE

LEASE#

E-346

MEASURED DEPTH:

8416'

I. GEOLOGY:

Surface formation - San Jose

A. FORMATION TOPS: (KB)

<u> </u>	<u>1U</u>		<u>TVD</u>	<u>MD</u>
2440' 2	675'	Mancos sh	6030'	6443'
2555' 2	812'	Gallup ss	7015	7428'
3015' 3	362'	Greenhorn ls	7775'	8188'
3265, 3	649'	Graneros sh	7830'	8243'
3565' 3	969'	Dakota ss	7965'	8378'
5450' 5	863,			
5500' 5	913'			
5730' 6	143	Total Depth	8215'	8628'
	2440, 2 2555, 2 3015, 3 3265, 3 3565, 3 5450, 5	2440' 2675' 2555' 2812' 3015' 3362' 3265' 3649' 3565' 3969' 5450' 5863' 5500' 5913'	2440' 2675' Mancos sh 2555' 2812' Gallup ss 3015' 3362' Greenhorn ls 3265' 3649' Graneros sh 3565' 3969' Dakota ss 5450' 5863' 5500' 5913'	2440' 2675' Mancos sh 6030' 2555' 2812' Gallup ss 7015' 3015' 3362' Greenhorn ls 7775' 3265' 3649' Graneros sh 7830' 3565' 3969' Dakota ss 7965' 5450' 5863' 5500' 5913'

- B. <u>LOGGING PROGRAM</u>: DIL from TD to the Intermediate Casing Shoe. DEN/Neutron/GR (selected intervals by on-site Geologist). Subject to change as wellbore conditions dictate.
- C. NATURAL GAUGES: Gauge any noticeable increases in gas flow. Guage well @ 5800' and before TOH for logs @ 7954'. Record all gauges in Tour book and on morning reports.

II. DRILLING

- A. <u>MUD PROGRAM:</u> Clear water with benex to 7" casing point. LSND 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 will be function tested not less than once each day. 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.



C. <u>BIT PROGRAM:</u> Use Hammer bit from Intermediate to just above the Greenhorn formation. Replace Hammer bit with Tricone bit to drill through the Dakota formation

III. MATERIALS

A. CASING PROGRAM:

CASING TYPE	HOLE SIZE	DEPTH(MD)	CASING SIZE	WT. & GRADE
Surface	14-3/4"	+/- 500'	10-3/4"	40.5# K-55
Intermediate	9-7/8"	+/-4148'	7-5/8"	26.4# K-55
Prod. Casing	6-3/4"	+/- 8628'	5-1/2"	17.0# N-80

B. FLOAT EQUIPMENT:

- 1. <u>SURFACE CASING:</u> 10-3/4" notched regular pattern guide shoe. Run (1) Standard centralizer on each of the bottom (3) Joints.
- 2. <u>INTERMEDIATE CASING:</u> 7-5/8" cement nose guide shoe with a self-fill insert float. Place float one (1) joint above the shoe and five (5) centralizers, spaced every other joint, starting with the float collar. Place turbulent centralizers, at 120' intervals, starting at 1500' to the surface. Total centralizers (5 regular and 13 turbulent).
- 3. PRODUCTION CASING: 5-1/2" whirler type cement nose guide shoe with a latch collar on top of 20° bottom joint. Place 20' marker joint on top of 10 th joint and one above 5100'.

C. CEMENTING:

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

- 1. SURFACE: Use 460sx (626cu.ft.) of class "Type III" with 2% CaCl2 and 1/4# of cello-flake/sk (Yield = 1.39 cu.ft./sk, Weight = 14.5 #/gal.). 125% excess to circulate the surface. WOC 12 hours. Test to 1500#.
- INTERMEDIATE: Lead: 670sx (1401cu.ft.) of class "Premium Lite" 65/35, Type III/Poz with 8% gel and 1/4# cello-flake/sk (Yield = 2.09 cu.ft./sk, Weight = 12.1 #/gal.). Tail: 375sx (381cu.ft.) of class "Type III" with 1/4# cello-flake/sk (Yield = 1.39 cu.ft./sk, Weight = 14.5#/gal.). 100% excess in lead and tail to circulate to surface. Total volume = 1782 cu.ft. WOC 12 hours. Run a temperature survey after 8 hours if cement is not circulated.
- 3. PRODUCTION CASING: 30 sks Scavenger of Premium Light HS + 1% FL-52 + .3% CD-32 + 2% KCl + .25 #/sk Celloflake + 4% Phenoseal + .2% R3. (Weight = 11 #/gal.). Cement Slurry: 245 sx (478ft³) of Premium Light HS + 1% FL-52 + .3% CD-32 + 2% KCl .25 #/sk Celloflake + 4% Phenoseal + .2% R3. (Yield = 2.02 ft³/sk, Weight = 12.5 #/gal.). Displace cement at a minimum of 8 BPM. Use 30% excess in calculation to raise cement 100' into intermediate casing. Total volume 497ft³. 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 5-1/2" casing to 3300# for 15 minutes.

C. STIMULATION

- 1. Stimulate Dakota with approximately 90,000# of 20/40 sand in x-link foam.
- 2. Isolate Dakota with a RBP.
- 3. Stimulate Point Lookout with approximately 80,000# of 20/40 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 80,000# of 20/40 sand in slick water.
- 7. Test each zone before removing bridge plugs.

D. RUNNING TUBING

- <u>Dakota</u>: Run 2-1/16", 3.25#, J-55, IJ tubing with 1/2 mule shoe on bottom joint and a SN with pump out plug on top of bottom joint. Will use a duel packer with 5 seal units to isolate Dakota from the Mesaverde formations. Land tubing approximately 100' below top Dakota perf.
- 2. <u>Mesa Verde:</u> Run 2-1/16", 2.9#, J-55, EUE tubing with a SN (1.91" ID) on top of bottom joint. Land tubing approximately 25' above the bottom Point Lookout perforations.

John C. Thompson	
Engineer	



Well Control Equipment Schematic for 2M Service

Typical BOP setup

