FORM 3160-3 (July 1992)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

FORM APPROVED OMB NO. 1004-0136 Expires February 28, 1995

DATE -

	UNI DEPARTME BUREAU O	,	5. LEASE DESIGNATION AND SERIAL NO. SF - 081001		
ΔΡΕ			ILL OR DEEPEN		6. IF INDIAN, ALOTTEE OR TRIBE NAME
	RILL X	DEEPEN			7. UNIT AGREEMENT NAME
TYPE OF WELL OIL WELL	GAS X	OTHER	SINGLE MULTIP	LE X	8. FARM OR LEASE NAME, WELL NO. FLORANCE GAS COM S 7M
	OCO PRODUCTION CO BOX 3092 ISTON , TX	0MPANY 77079			9. API WELL NO. 30-045-30571
ADDRESS AND TELEPHONE IN MARY CORLEY SUBMITTING CONTAC			10. FIELD AND POOL, OR WILDCAT BASIN DAKOTA/BLANCO MESAVERDI		
LOCATION OF WELL (Report Interpretate National Surface 1960FNL AND 1290FEL Nat proposed prod. zone	ocation clearly and in accordance w	vith any State requirements.*)		Н	11. SEC.,T.,R.,M., OR BLK AND SURVEY OR AREA SECTION 23 T30N R9W
4. DISTANCE IN MILES AND D		T TOWN OR POST OFFICE			MERIDIAN NMP 12. COUNTY OR PARISH SAN JUAN 13. STATE NM
L5.5 MILES FROM AZT 5. DISTANCE FROM PROPOSEI OCATION TO NEAREST PROPERTY OR LEASE LINE, FT	D*	16. NO. ACRES I 320.00	N LEASE	17. NO. OF TO THIS W 320.00	ACRES ASSIGNED
9 DISTANCE FROM PROPOSED LOCATION* [19.1 ROLOSED DELTI-				20. ROTAR	Y OR CABLE TOOLS Y
1. ELEVATIONS (Show whether	DF, RT, GR, etc.) 6013 GL				22. APPROX. DATE WORK WILL START* 04/20/2001
3.		PROPOSED CASING A	ND CEMENTING PROGRAM	[
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMENT
Company respectfully re the Basin Dakota Pool, p Pool and commingle pro submitted to all appropis prior to completion of an drill we have attached 8 This actio procedure	quest permission to drill roduce the well for appr duction downhole. Appli ate parties for approval a and downhole comminglin	the subject well to a to a coximately 30 days to est cation for downhole corafter production has been gwith the Blanco Mesa pdf files).	se change well number to 7M tal depth of approximately 74 talish production rate, add th mmingling authority (NMOC en established in the Basin Daverde. In support of our appl	e Blanco M D order R- kota Pool :	tesaverde -11363) will be and
IN ABOVE SPACE DESCR deepen directionally, give p	ertinent data on subsurface	locations and measured b	THE THE VEHICLE CONTROL		proposed productive zone. If proposal is to drill or ter program, if any.
24	ELECTRONIC SUI FOR AMOCO PRODUC	BMISSION #2698 VERI CTION COMPANY	FIED BY THE BLM WELL SENT TO THE FARMINGT	INFORMA ON	ATION SYSTEM FIELD OFFICE
SIGNED MARY CORL	EY	TITLE	SUBMITTING CONTACT		DATE 02/20/2001
PERMIT NO.			APPROVAL DATE		
Application approval does r CONDITIONS OF APPRO	not warrant or certify that the a	pplicant holds legal or equital	ble title to those rights in the subject	lease which	would entitle the applicant to conduct operations theror
	. t. 1 t. # th				MAR 2.8

/s/ Joel Farrell

APPROVED BY

District I
PO Box 1980, Hobbs NM 88241-1980
District II
PO Drawer KK, Artesia, NM 87211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV

State of New Mexico Energy, Minerals & Natural Resources Department

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

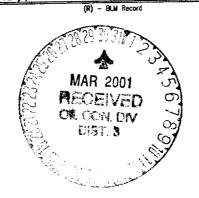
Form C-102 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office

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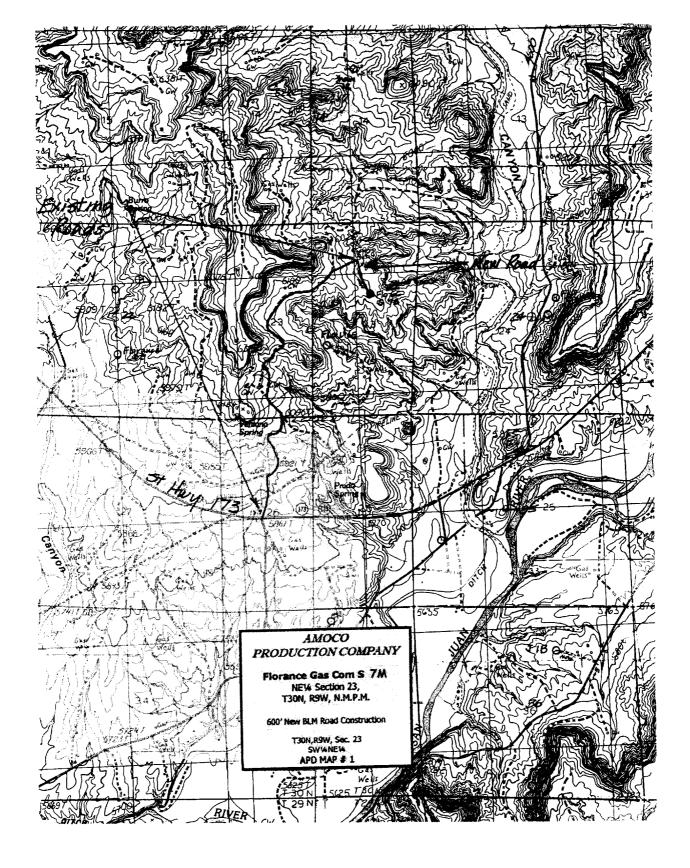
PROFESSIONAL

State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT PO Box 2088, Santa Pe, NM 87504-2088 WELL LOCATION AND ACREAGE DEDICATION PLAT Pool Code API Numb 71599 & 72319 Basin Dakota & Blanco Mesaverde Property Cod 7M FLORANCE GAS COM S 000540 OGRID No. 6013 AMOCO PRODUCTION COMPANY 000778 Surface Location East/West line Foet from the Feet from the UL or Lot No. Section SAN JUAN EAST 1290 NORTH 1960 9 W 23 30 N H ¹¹ Bottom Hole Location If Different From Surface Fast/West line Fort from the 1 UL or lot no. 320.00 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 "OPERATOR CERTIFICATION hereby certify that the information contained herein is ue and complete to the best of my knowledge and belief. Sr. Regulatory Analyst 1290' -02/19/2001 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. November 22, 2000 Date of Surve end Scal de Pedegal



5237(R)



AMOCO PRODUCTION COMPANY DRILLING AND COMPLETION PROGRAM

Prospect Name: Florance Gas Com S Well No: 7M

Surface Location: 23-30N-9W, 1960 FNL,1290 FEL Lease: FLORANCE GAS COM S Field: Blanco Mesaverde/Basin Dakota County: San Juan

State: New Mexico Date: February 20, 2001

Date: Februa	ry 20, 2001						
OBJECTIVE: Drill 400' below	OBJECTIVE: Drill 400' below the base of the Greenhorn Limestone, set 4" Liner across Dakota, Stimulate LS, CH, MF, PL and DK intervals						
METHO	O OF DRILLING	APPROXIMATE DEPTHS OF GEOLOGICAL MARKER					
TYPE OF TOOLS	DEPTH OF DRILLING	Estimated GL:	6013		Estimated	KB: _ (6027
	0 - TD	MARKER		SI	JBSEA	MEA	S. DEPTH
Rotary	PROGRAM	Ojo Alamo			4493		1534
TYPE	DEPTH INVERAL	Fruitland Coal	*		3781		2246
OPEN HOLE	DEI (IIIIIVEIO)E	Pictured Cliffs	*		3241		2786
GR-Induction	TD to 5 1/2" shoe	Lewis Shale	#		3211		2816
Density/Neutron	TD to 5 ½" shoe	Cliff House	#		1631		4396
Sonic	TD to 5 ½" shoe	Menefee Shale	#		1431		4596
CASED HOLE		Point Lookout	#		1021		5006
GR-CCL-TDT	TDT - PBTD-7 5/8" shoe	Mancos			921		5106
CR COL ID	GR-CCL - PBTD-0'	Greenhorn			-963		6990
CBL	Top of 4" - 50' above 7 5/8 "shoe	Bentonite Marker			-1020		7047
REMARKS:		Two Wells	#		-1070		7097
- Please report any flares (ma	agnitude & duration).	Dakota MB	#		-1200		7227
r rouge repert any manage (,	Burro Canyon	*		-1307		7334
		Morrison	*		-1357		7384
		TOTAL DEPTH			-1420		7447,-
		# Probable completion interval * Possible Pay					
SPF	CIAL TESTS	DRILL CUTTIN	G SAMP	LES	DRIL	LING	TIME
TYPE		FREQUENCY	DEPTH		FREQUEN	ICY	DEPTH
None		10 feet	Production	hole	Geolograph	1	0-TD
REMARKS:							
REIVIARNO.							ļ
MUD PROGRAM:	1 1 - 1 - 44 1	130	N/L cc's/	20 mi	n Other	Snacif	ication
Approx. Interval	Type Mud Weight, #/gal	Vis, sec/qt \	WIL CC SI	ou ini	n j Other	opecii	TOURION .

MUD PRO			Type Mud	Weight, #/gal Vis, sec/qt W/L cc's/30 min Other Specification
0 120-135 2196 7047	- 120-135 - 2196 - 7047 7447	3 jts. (1)(2)	Spud Water/LSND Gas/Air/Mist LSND	8.6-9.2 8.6-9.2 Volume sufficient to maintain a stable and clean wellbore 8.6-9.2

REMARKS:

(1) The hole will require sweeps to keep unloaded while fresh water drilling. Let hole conditions dictate frequency.

(2) Top set Fruitland Coal to minimize lost circulation, air volume to maintain hole stability.

CASING PROGRAM:	CASING PROGRAM: (Normally, tubular goods allocation letter specifies casing sizes to be used. Hole sizes will be governed by Contract)										
Casing String	Estimated	Casing Size	Grade	Weight	Hole Size	Landing Pt, Cmt, Etc.					
3	Depth										
Surface/Conductor	120-135	10 3/4"	J-55 ST&C	40.5#	14.75"	1					
Intermediate 1	2196	7 5/8"	K-55 LT&C	26.4#	9.875"	1,2					
Intermediate 2	7047		K-55 LT&C	15.5#	6.75"	4					
Production (liner)	7447	4"		11#	4.75"	3					
1 Toddottori (iirlor)		<u> </u>									

(4) Bring cement 200' above 7 5/8" shoe

REMARKS:

- (1) Circulate Cement to Surface
- (2) Set casing 50' above Fruitland Coal
- (3) Liner Lap should be a minimum of 100'

CORING PROGRAM:

None

COMPLETION PROGRAM:

Rigless, 4-6 Stage Limited Entry Hydraulic Frac

GENERAL REMARKS:

Notify BLM/NMOCD 24 hours prior to Spud, BOP testing, and Casing and Cementing.

Logging program reviewed by: N/A Form 46 Reviewed by: DATE: PREPARED BY: APPROVED: January 5, 2001 Version 1.0 KAS/KAT Form 46 12-00 KAT

Cementing Program: Florance Gas Com S 7M

	Surface	Intermediate	12	Liner
Excess %, Bit	100%	80	50	10
Excess %, Caliper	NA	NA	NA	30
BHST (est deg. F)	60	120	150	160
Pipe Movement	NA	Rotate/Reciprocate	Rotate/Reciprocate	as per Liner Co.
Rate, Max (bpm)	7	4	4	2
Rate Recommended (bpm)	6	4	3	2
Pressure, Max (psi)	200	2000	2000	2000
Shoe Joint	40	80	80	40
Batch Mix	NA	NA	NA	NA
Circulating prior cmtng (hr)	0.5	1.5	2.5	2
Time Between Stages, (hr)	NA	NA	NA	NA
Special Instructions	1,6,7	1,6,8	1,6,9	2,3,4,6

- 1. Do not wash pumps and lines.
- 2. Wash pumps and lines.
- 3. Reverse out
- 4. Run Blend Test on Cement
- 5. Record Rate, Pressure, and Density on 3.5" disk
- 6. Confirm densitometer with pressurized mud scales
- 7. 1" cement to surface if cement is not circulated.
- 8. If cement is not circulated to surface, run temp. survey 10-12 hr. after landing plug.

Notes:

- *Do not wash up on top of plug. Wash lines before displacing liner cement job to minmize drillout.
- ** After cement set time the liner top will be drilled out and liner circulated clean with treated water.
 *** Run TMD cased hole logs to identify pay; Perforating and CH logs can be run rigless.

Surface:				
Preflush	20	bbl. FreshWater		
Slurry 1	120sx	Class G Cement		139cuft
TOC@Surface	+ 2	% CaCl2 (accelerator)		
	0.2	5 #/sk Cellophane Flake (lost circulation additive)	0.5563 cuft/ft OH
	0.1	% D46 antifoam		100% excess
Slurry Properties:	Density	Yield	Water	
	(ib/gal)	(ft3/sk)	(gal/sk)	
Slurry 1	15.8	1.16	4.95	
Casing Equipment:	10-3/4", 8R, ST&C			
	1 Guide Shoe			
	1 Top Wooden Plug	3		
	1 Autofill insert float	valve		
	4 Centralizers			
	1 Stop Ring			
	1 Thread Lock Com	npound		

Cementing Program: Florance Gas Com S 7M

Intermediate:								
	Fresh Water		20 bbl	fresh water				
	Lead		220sx Class "G" Cement			637 cuft		
	Slurry 1			+ 3% D79 extend	extender			
	TOC@Surface			+ 2% S1 Calcium	n Chloride			
			+1/4 #/sk. Cellophane Flake					
				+ 0.1% D46 antif	oam'			
	Tail		1	52sx 50/50 Class "0	G"/Poz	193 cuft		
	Slurry 2			+ 2% gel (extend	er)			
		500ft fill		0.1% D46 antifoa	am	0.2148 cuft/ft OH		
				+1/4 #/sk. Cellop	hane Flake	0.2338 cuft/ft csg ann		
				+ 2% CaCl2 (acc	elerator)	80% excess		
Slurry Properties:		Density		Yield	Water			
		(lb/gal)		(ft3/sk)	(gal/sk)			
Slurry 1		11.4		2.9	17.77			
Slurry 2		13.5		1.27	5.72			
Casing Equipment:		7-5/8", 8R, ST&C						
		1 Float Shoe (auto	fill with mi	inimal LCM in mud)				
		1 Float Collar (auto	ofill with m	ninimal LCM in mud)			
		1 Stop Ring						
		9 Centralizers (one	in middle	e of first joint, then e	every third collar)			
		2 Fluidmaster vane	e centalize	ers @ base of Ojo				
		8 Centalizers one	every 4th	joint from Ojo to bas	se of surface casing			
		1 Top Rubber Plug	3					
l		1 Thread Lock Cor	npound					

Int 2:							
	Fresh Water		10 bbl	CW100			
	Lead		4	64 LiteCrete D961 / [993 cuft		
	Slurry 1			+ 0.03 gps D47 ar	ntifoam		
	TOC@Surface			+ 0.5% D112 fluid	lloss		
				+ 0.11% D65 TIC			
	Tail			80sx 50/50 Class "G	"/Poz	115 cuft	
	Slurry 2			+ 5% D20 gel (ext	+ 5 #/sk D24 gilsonite		
		500ft fill		+ 0.1% D46 antifo	am	+ 0.15% D65 TIC	
				+ 1/4 #/sk. Cellopl	hane Flake	+ 0.1% D800 retarder	
				+ 0.25% D167 Flu	id Loss		
						0.1521 cuft/ft OH	
Slurry Properties:		Density		Yield	Water	50 % excess	
•		(lb/gal)		(ft3/sk)	(gal/sk)	0.0999 cuft/ft csg ann	
Slurry 1		9.5		2.14	6.38		
Slurry 2		13		1.44	6.5		
Casing Equipment:		5-1/2", 8R, ST&C	;				
		1 Float Shoe (auto	ofill with m	inimal LCM in mud)			
		1 Float Collar (aut	tofill with m	ninimal LCM in mud)			
		1 Stop Ring					
		35 Centralizers (e					
		1 Top Rubber Plu	ıg				
		1 Thread Lock Co	mpound				

Cementing Program: Florance Gas Com S 7M

Production (liner):				
Preflush	10 bbl.	CW100 / LCM wash		
Lead Cement		2350/50 Poz/G		34 cuft
Slurry 1		5% D20 bentonite	0.1% D46 antif	foam
	100ft lap	0.25#/sk D29 celloph	nane	
	100ft cap	0.25% D167 Fluid los	ss	0.0358 cuft/ft OH
		0.15% D65 TIC		0.0464 cuft/ft csg ann
		0.15% D800 retarder	•	0.1336 cuft/ft csg
Slurry Properties:	Density		Water	10% excess
	(lb/gal)	(ft3/sk)	(gal/sk)	
Slurry 1	13	1.44	6.5	
Liner Float Equipment:	Float Shoe and Float Co	ollar (fumished by Liner Ha	nger Company)	
	1 Thread Lock Compoun	nd		
Note:				
1. Coordinate v	w/Liner hand to drop plug, or set/rel	ease Liner as required		
2. The job sho	uld be pumped at 2-3 bpm max rate	e. Do not exceed 3 bpm or	n displacement	
3. Wash pump	and lines before displacement. Slo	w to 1 bpm for the last 30	bbl of displacemen	nt.
4. This is to be	a rigless completion. After cement	set time, liner top will be o	dressed off an liner	
circulated clea	n with 2 % KCl or 2 gal/1000 gal L6	34.		

FEDERAL CEMENTING REQUIREMENTS

- 1. All permeable zones containing fresh water and other usable water containing 10,000 PPM or less total dissolved solids will be isolated and protected from contamination by cement circulated in place for the protection of permeable zones per the NTL-FRA 90-1 Section III A.
- 2. The hole size will be no smaller than 1 ½" larger diameter than the casing O.D. across all water zones.
- 3. An adequate spacer will be pumped ahead of the cement slurry to help prevent mud contamination of the cement.
- 4. An adequate number of casing centralizers will be run through usable water zones to ensure that the casing is centralized through these zones. The adequate number of centralizers to use will be determined by API SPEC 10D.
- 5. Centralizers will impart a swirling action around the casing and will be used just below and into the base of the lowest usable water zone.
- 6. A chronological log will be kept recording the pump and slurry information and will be sent to the BLM with the subsequent sundry.

Amoco Production Company BOP Pressure Testing Requirements

Well Name:

Florance Gas Com S 7M

County:

San Juan

State: New Mexico

Formation	TVD	Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure **
Ojo Alamo	1534		
Fruitland Coal	2246		
PC	2786		
Lewis Shale	2816		
Cliff House	4396	500	0
Menefee Shale	4596		
Point Lookout	5006	600	
Mancos	5106		
Dakota	7097	2600	1477

** Note: Determined using the following formula: ABHP - (.22 * TVD) = ASP

Requested BOP Pressure Test Exception: 3000 PSI

SAN JUAN BASIN Dakota Formation Pressure Control Equipment

Background

The objective Dakota formation maximum surface pressure is anticipated to be less than 1000 PSI, based on shut-in surface pressures from adjacent wells. Pressure control equipment working pressure minimum requirements are therefore 2000 PSI. Equipment to be used will conform to API RP-53 (Figure 2.C.2) for a 2000 PSI system per Federal Onshore Order No. 2. Due to available conventional equipment within the area, 3000 PSI rated pressure control equipment will typically be utilized in a double ram type arrangement. Regional drilling rights to be utilized have substructure height limitations which exclude the use of annular preventers; therefore a rotating head will be installed above these rams. This pressure control equipment will be utilized for conventional drilling below conductor to total depth in the Basin Dakota. No abnormal temperature, pressure, or H2S anticipated.

Equipment Specification

Interval

BOP Equipment

Below conductor casing to total depth

11" nominal or 7 1/16",3000 PSI double ram preventer with rotating head.

All ram type preventers and related control equipment will be hydraulically tested to 250 PSI (low pressure) and 2000 PSI (high pressure), upon installation, following any repairs or equipment replacements, or at 30 day intervals. Accessories to BOP equipment will include kelly cock, upper kelly cock with a handle available, floor safety valves and choke manifold which will also be tested to equivalent pressure.