

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0135
Expires: November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. SF - 078110-A 280244	
2. Name of Operator AMOCO PRODUCTION COMPANY		6. If Indian, Allottee or Tribe Name	
3a. Address P.O. BOX 3092 HOUSTON, TX 77253		7. If Unit or CA/Agreement, Name and/or No.	
3b. Phone No. (include area code) Ph: 281.366.4491 Fx: 281.366.0700		8. Well Name and No. RIDDLE 1M	
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 21 T30N R9W Mer NENW 1080FNL 2385FWL 36.48100 N Lat, 107.47200 W Lon		9. API Well No. 30-045-30626	
		10. Field and Pool, or Exploratory BASIN DAKOTA/BLANCO MESAVERDE	
		11. County or Parish, and State SAN JUAN COUNTY, NM	

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> APDCH
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Application for Permit to Drill for the subject well was submitted on 04/10/2001 and approved on 06/08/2001. Amoco Production Company respectfully submits for your approval amendments to our drilling and completion Program as per the attached two (2) documents. The major change is in the casing and cementing program.

The subject well also requires NMOCD approval for a Non-Standard drilling location for the Basin Dakota completion. A request for an exception to the Non-Standard well location is being submitted to the NMOCD under a separate application.

14. I hereby certify that the foregoing is true and correct. Electronic Submission #5091 verified by the BLM Well Information System For AMOCO PRODUCTION COMPANY, sent to the Farmington Committed to AFMSS for processing by Maurice Johnson on 06/19/2001 ()	
Name (Printed/Typed) MARY CORLEY	Title AUTHORIZED REPRESENTATIVE
Signature	Date 06/19/2001

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____	Title _____	Date 7/3/01
Conditions of approval, if any, are attached. Approval of this notice 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.		Office _____

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.

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Revisions to Operator-Submitted EC Data for Sundry Notice #5091

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	APDCH NOI	APDCH NOI
Lease:	SF - 078116-A	NMSF080244
Agreement:		
Operator:	AMOCO PRODUCTION COMPANY P.O. BOX 3092 HOUSTON, TX 77253 Ph: 281.366.4491 Fx: 281.366.0700	AMOCO PRODUCTION COMPANY P.O. BOX 3092 HOUSTON, TX 77253 Ph: 281.366.4491
Contact:	MARY CORLEY AUTHORIZED REPRESENTATIVE E-Mail: corleymf@bp.com	MARY CORLEY AUTHORIZED REPRESENTATIVE E-Mail: corleymf@bp.com
Location:		
State:	NM	NM
County:	SAN JUAN	SAN JUAN
Field/Pool:	BASIN DAKOTA/BLANCO MESAVERDE	BASIN DAKOTA
Well/Facility:	RIDDLE 1M Sec 21 T30N R9W Mer NENW 1080FNL 2385FWL 36.48100 N Lat, 107.47200 W Lon	RIDDLE 1M Sec 21 T30N R9W Mer NENW Lot C 1080FNL 2385FWL 36.48100 N Lat, 107.47200 W Lon

**AMOCO PRODUCTION COMPANY
DRILLING AND COMPLETION PROGRAM**

Prospect Name: Riddle
Lease: RIDDLE
County: San Juan
State: New Mexico
Date: June 19, 2001

Well No: 1M
Surface Location: 21-30N-9W, 1080 FNL, 2385 FWL
Field: Blanco Mesaverde/Basin Dakota

OBJECTIVE: Drill 450' below the base of the Greenhorn Limestone, set 4 1/2" production casing, Stimulate LS, CH, MF, PL and DK intervals

METHOD OF DRILLING		APPROXIMATE DEPTHS OF GEOLOGICAL MARKER			
TYPE OF TOOLS	DEPTH OF DRILLING	Estimated GL: 5959		Estimated KB: 5973	
Rotary	0 - TD	MARKER		SUBSEA	MEAS. DEPTH
LOG PROGRAM					
TYPE	DEPTH INVERTAL				
OPEN HOLE		Ojo Alamo	*	4622	1351
GR-Induction	TD to 7" shoe	Fruitland Coal	*	3851	2123
Density/Neutron	TD to 7" shoe	Pictured Cliffs	*	3297	2676
		Lewis Shale	#	3228	2745
		Cliff House	#	1660	4314
		Menefee Shale	#	1482	4491
		Point Lookout	#	1045	4928
CASED HOLE		Mancoas		950	5024
GR-CCL-TDT	TDT - TD to 7" shoe	Greenhorn		-946	6919
CBL	Identify 4 1/2" cement top	Bentonite Marker		-1010	6983
REMARKS:		Two Wells	#	-1052	7025
- Please report any flares (magnitude & duration).		Dakota MB	#	-1190	7163
		Burro Canyon	*	-1365	7338
		Morrison	*	-1415	7388
		TOTAL DEPTH		-1460	7433
		# Probable completion interval		* Possible Pay	
SPECIAL TESTS		DRILL CUTTING SAMPLES		DRILLING TIME	
TYPE		FREQUENCY	DEPTH	FREQUENCY	DEPTH
None		10 feet	Production hole	Geograph	0-TD
REMARKS:					

MUD PROGRAM:						
Approx. Interval	Type Mud	Weight, #/ga	Vis, sec/qt	W/L cc's/30 min	Other Specification	
0 - 120-135 3 jts.	Spud	8.6-9.2				
120-135 - 2845 (1)	Water/LSND	8.6-9.2		<6		
2845 - 7338	Gas/Air/N2/Mist	Volume sufficient to maintain a stable and clean wellbore				
7338 7433 (2)	LSND	9.0-9.2		<6		

REMARKS:
(1) The hole will require sweeps to keep unloaded while fresh water drilling. Let hole conditions dictate frequency.
(2) Mud up 50' above Morrison +/-.

CASING PROGRAM: (Normally, tubular goods allocation letter specifies casing sizes to be used. Hole sizes will be governed by Contract)

Casing String	Estimated Depth	Casing Size	Grade	Weight	Hole Size	Landing Pt, Cmt, Etc.
Surface/Conductor	120-135	9 5/8"	H-40 ST&C	32#	12.25"	1
Intermediate 1	2845	7"	J/K-55 ST&C	20#	8.75"	1,2
Production	7433	4 1/2"	J-55	11.6#	6.25"	3

REMARKS:
(1) Circulate Cement to Surface
(2) Set casing 100' into Lewis Shale
(3) Bring cement 100' above 7" shoe

CORING PROGRAM:

None

COMPLETION PROGRAM:

Rigless, 4-6 Stage Limited Entry Hydraulic Frac

GENERAL REMARKS:

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

Form 46 Reviewed by:

Logging program reviewed by: N/A

PREPARED BY:

APPROVED:

DATE:

May 8, 2001

Version 3.0

HGJ/KAT

Form 46 12-00 KAT

BOP Test Pressure

Amoco Production Company BOP Pressure Testing Requirements

Well Name: Riddle
County: San Juan

1M
State: New Mexico

Formation	TVD	Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure **
Ojo Alamo	1351		
Fruitland Coal	2123		
PC	2676		
Lewis Shale	2745		
Cliff House	4314	500	0
Menefee Shale	4491		
Point Lookout	4928	600	0
Mancos	5024		
Dakota	7025	2600	1495

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

Requested BOP Pressure Test Exception: 3000 psi

Cementing Program

Well Name: [REDACTED] Location: [REDACTED] FSL2385 FEL County: [REDACTED] State: [REDACTED]	Field: [REDACTED] Verde / Basin Dakota API No. [REDACTED] Well Flac [REDACTED] Formation: [REDACTED] Verde KB Elev (est) [REDACTED] GL Elev. (est) [REDACTED]
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Casing Program:							
Casing String	Est. Depth (ft.)	Hole Size (in.)	Casing Size (in.)	Thread	TOC (ft.)	Stage Tool Or TOL (ft.)	Cmt Cir. Out (bbl.)
Surface	[REDACTED]	12.25	9.625	ST&C	Surface	NA	
Intermediate	[REDACTED]	8.75	7	LT&C	Surface	NA	
Production -	[REDACTED]	6.25	4.5	?	2745	NA	

Casing Properties:		(No Safety Factor Included)							
Casing String	Size	Weight	Grade	Burst	Collapse	Joint St.	Capacity	Drift	
	(in.)	(lb/ft)		(psi.)	(psi.)	(1000 lbs.)	(bbl/ft.)	(in.)	
Surface		9.625	32 H-40	3370		1400	254	0.0787	8.845
Intermediate		7	20 K-55	3740		2270	234	0.0405	6.456
Production -		4.5	11.6 J-55	5350		4960	154	0.0155	3.675

Mud Program			
Apex Interval (ft.)	Mud Type	Mud Weight	Recommended Mud Properties Pre Cementing:
			PV <20 YP <10 Fluid Loss <15
0 - SCP	Water/Spud	8.6-9.2	
SCP - ICP	Water/LSND	8.6-9.2	
ICP - ICP2	Gas/Air Mist	NA	
ICP2 - TD	LSND	8.6 - 9.2	

Cementing Program:			
	Surface	Intermediate	Production
Excess %, Bit	100%	80	10
Excess %, Caliper	NA	NA	30
BHST (est deg. F)	60	120	160
Pipe Movement	NA	Rotate/Reciprocate	Rotate/Reciprocate
Rate, Max (bpm)	7	4	2
Rate Recommended (bpm)	6	4	2
Pressure, Max (psi)	200	2000	2000
Shoe Joint	40	80	40
Batch Mix	NA	NA	NA
Circulating prior cmtg (hr)	0.5	1.5	2
Time Between Stages, (hr)	NA	NA	NA
Special Instructions	1,6,7	1,6,8	2,4,6

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 production cement job to minimize drillout.
 *** Run TMD cased hole logs to identify pay. Perforating and CH logs can be run rigless.

Surface:

Preflush	20 bbl.	Fresh Water	
Slurry 1	73 ax Class G Cement		85 cuft
TOC@Surface	+ 2% CaCl2 (accelerator) 0.25 #/sk Cellulose Fluke (lost circulation additive) 0.1% D46 antifoam		0.3132 cuft/ft OH 100 % excess
Slurry Properties:	Density (lb/gal)	Yield (ft ³ /sk)	Water (gal/sk)