

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0136
Expires November 30, 2000

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMSF - 078139
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator BP AMERICA PRODUCTION COMPANY		7. If Unit or CA Agreement, Name and No.
3a. Address P.O. BOX 3092 HOUSTON, TX 77253		8. Lease Name and Well No. E E ELLIOTT A 1C
3b. Phone No. (include area code) Ph: 281.366.4491 Fx: 281.366.0700		9. API Well No. 3004532121
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NESE Lot I 2125FSL 945FEL 36.48600 N Lat, 107.45700 W Lon At proposed prod. zone		10. Field and Pool, or Exploratory BLANCO MESAVERDE
14. Distance in miles and direction from nearest town or post office* 16 MILES FROM AZTEC, NEW MEXICO		11. Sec., T., R., M., or Blk. and Survey or Area I Sec 15 T30N R9W Mer NMP SME: BLM
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 505		12. County or Parish SAN JUAN
16. No. of Acres in Lease 320.00		13. State NM
17. Spacing Unit dedicated to this well 320.00 5/2		
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 1086		20. BLM/BIA Bond No. on file WY2924
19. Proposed Depth 5626 MD		
21. Elevations (Show whether DF, KB, RT, GL, etc.) 6281 GL		23. Estimated duration 5 DAYS
22. Approximate date work will start 02/20/2004		

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature (Electronic Submission)	Name (Printed/Typed) MARY CORLEY	Date 01/08/2004
Title AUTHORIZED REPRESENTATIVE		
Approved by (Signature) David J. Mankiewicz	Name (Printed/Typed)	Date APR 13 2004
Title		Office

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

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.

Additional Operator Remarks (see next page)

Electronic Submission #26681 verified by the BLM Well Information System
For BP AMERICA PRODUCTION COMPANY, sent to the Farmington

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

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

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

NWMOGD

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
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 LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-045-32121		2 Pool Code 72319		3 Pool Name BLANCO MESAVERDE	
4 Property Code 000469		5 Property Name E. E. ELLIOTT A			6 Well Number #1C
7 OGRID No. 000778		8 Operator Name BP AMERICA PRODUCTION COMPANY			9 Elevation 6281

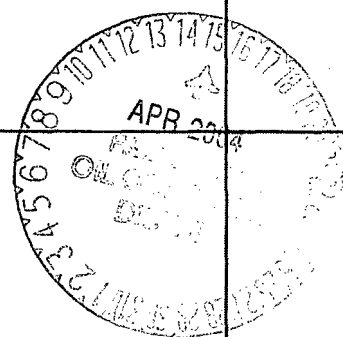
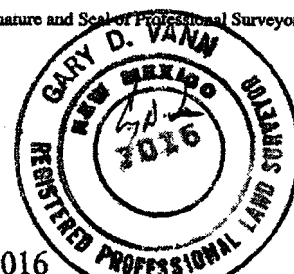
10 Surface Location

UL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	15	30 N	9 W		2125	SOUTH	945	EAST	SAN JUAN

11 Bottom Hole Location If Different From Surface

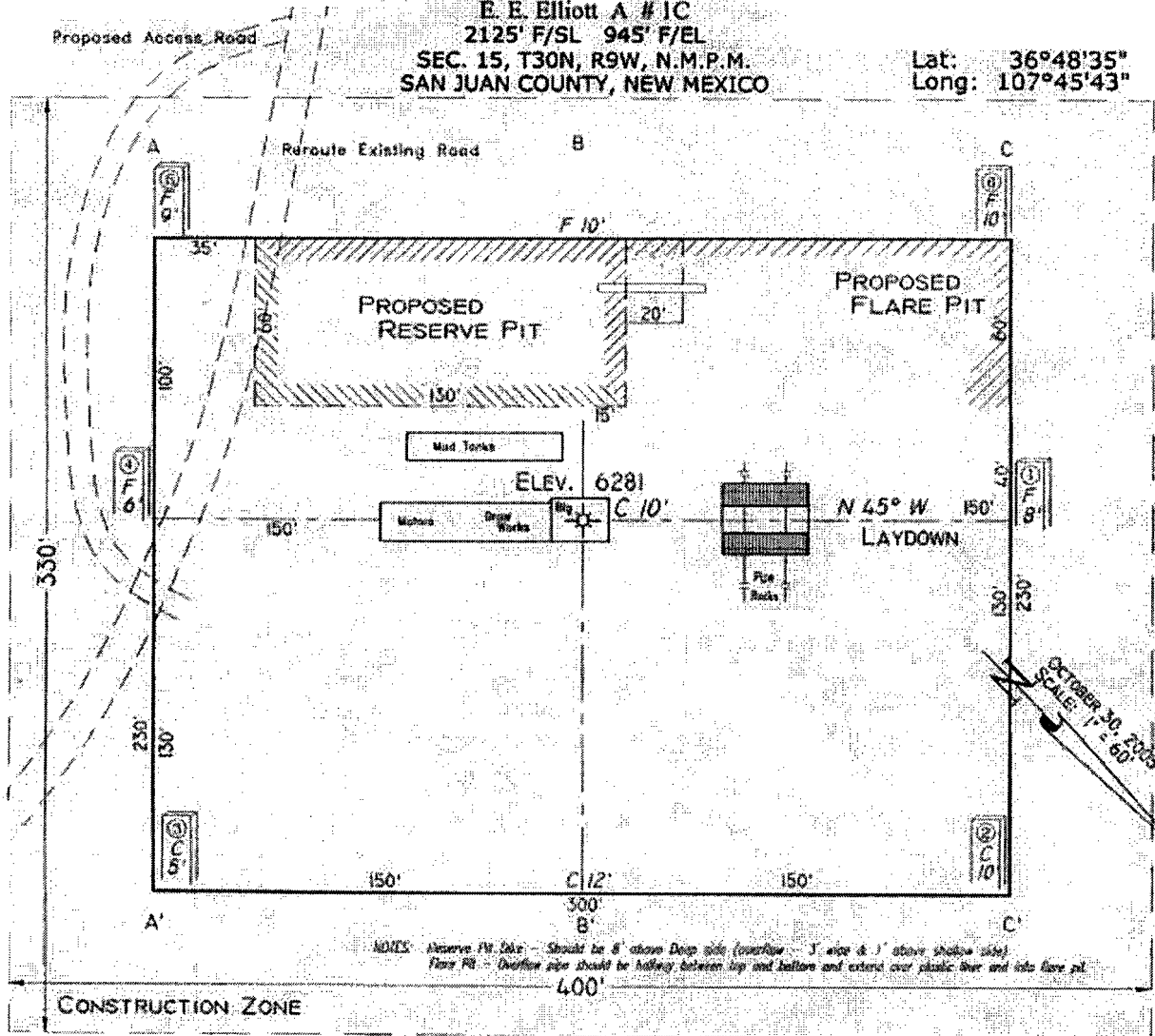
12 UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
13 Dedicated Acres 320		14 Joint or Infill		15 Consolidation Code		16 Order No.			

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

16		5225(R)		17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Signature: <i>Mary Corley</i> Printed Name: Mary Corley Title: Sr. Regulatory Analyst Date: 01-08-2004	
		15		18 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. October 30, 2003 Date of Survey Signature and Seal of Professional Surveyor  7016 Certificate Number	
#1* 30.045-0971 1400' FSL - 990' FWL		#1B* 30.045-31005 1650' FSL 2190' FWL		#1A* 30.045-22058 1180' FSL 1480' FEL	
		505'		945'	
		2125'			
		5258(R)			

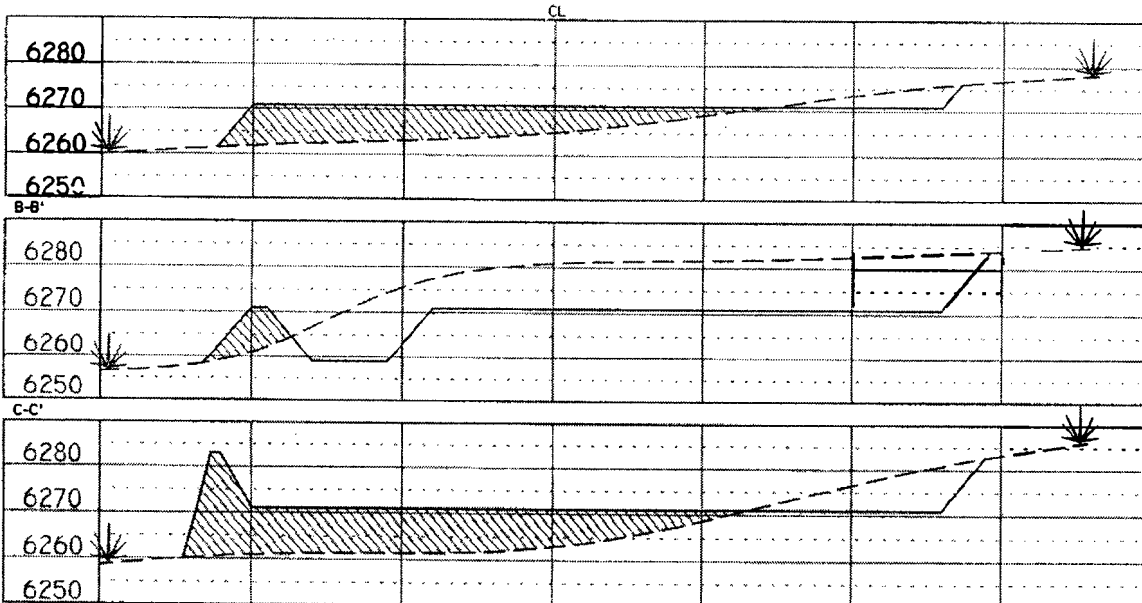
PAD LAYOUT PLAN & PROFILE
BP AMERICA PRODUCTION COMPANY
E. E. Elliott A #1C
2125' F/SL 945' F/EL
SEC. 15, T30N, R9W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO

Lat: 36°48'35"
 Long: 107°45'43"



Area of Construction Zone - 330' x 400' or 3.03 acres, more or less.

SCALE: 1"=60'-HORIZ.
 1"=40'-VERT.



NOTE: Contractor should call One-Call for location of any marked or unmarked buried pipelines or cables on well pad and/or access road at least two (2) working days prior to construction.

Cuts and fills shown are approximate - final finished elevation is to be adjusted so earthwork will balance. Corner stakes are approximate and do not include additional areas needed for sideslopes and drainages. Final Pad Dimensions are to be verified by Contractor.

VANN SURVEYS
 P. O. Box 1306
 Farmington, NM

**BP AMERICA PRODUCTION COMPANY
DRILLING AND COMPLETION PROGRAM**

Prospect Name: E. E. Elliott A
Lease: E. E. Elliott A
County: San Juan
State: New Mexico
Date: November 3, 2003

Well No: 1 C
Surface Location: 15-30N-9W; 2125 FSL, 945 FEL
Field: Blanco Mesaverde

OBJECTIVE: Drill 400' below the top of the Point Lookout Sandstone, set 2 7/8" production long string, Stimulate CH, MF and PL intervals					
METHOD OF DRILLING			APPROXIMATE DEPTHS OF GEOLOGICAL MARKER		
TYPE OF TOOLS Rotary	DEPTH OF DRILLING 0 - TD		Estimated GL: 6231		Estimated KB: 6245
LOG PROGRAM			MARKER		
			SUBSEA		
TYPE <u>OPEN HOLE</u> None		DEPTH INVERAL TD to 5 1/2" shoe	Ojo Alamo	4426	1819
			Kirtland	4334	1912
<u>CASED HOLE</u> GR-CCL			Fruitland	3832	2414
			Fruitland Coal	*	3582
			Pictured Cliffs	*	3236
			Lewis	*	3032
			Cliff House	#	1727
			Menefee	#	1419
			Point Lookout	#	1019
			Mancos		648
REMARKS: - Please report any flares (magnitude & duration).			TOTAL DEPTH		
			619		
			# Probable completion interval		
			* Possible Pay		
SPECIAL TESTS			DRILL CUTTING SAMPLES		DRILLING TIME
TYPE None			FREQUENCY	DEPTH	FREQUENCY
REMARKS:			None	Production hole	Geologist
					0-TD
MUD PROGRAM:					
Approx. Interval	Type Mud	Weight, #/gal	Vis, sec/qt	W/L cc's/30 min	Other Specification
0 - 120	Spud	8.6-9.2			
120 - 2614 (1)	Water/LSND	8.6-9.2		<6	
2614 - 5626	Gas/Air/N2/Mist	Volume sufficient to maintain a stable and clean wellbore			
REMARKS: (1) The hole will require sweeps to keep unloaded while fresh water drilling. Let hole conditions dictate frequency.					
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
Surface/Conductor	120	8 5/8"	X-42 ST&C	20#	12.25"
Intermediate 1	2614	5 1/2"	J-55 ST&C	15.5#	7.875"
Production	5626	2 7/8"	J-55	6.5#	4.75"
REMARKS: (1) Circulate Cement to Surface (2) Set casing 50' above Fruitland Coal (3) Bring cement 100' above 5 1/2" shoe (4) 100' Overlap					
CORING PROGRAM: None					
COMPLETION PROGRAM: Rigless, 2-3 Stage Limited Entry Hydraulic Frac					
GENERAL REMARKS: Notify BLM/NMOCD 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:	
HGJ/MNP/JMP				November 3, 2003	
				Version 1.0	

**SAN JUAN BASIN
Mesaverde Formation
Pressure Control Equipment**

Background

The objective Mesaverde 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 rigs 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 Mesaverde. No abnormal temperature, pressure, or H₂S anticipated.

Equipment Specification

Interval

BOP Equipment

Below conductor casing to total depth	9", 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 750 psi (high pressure), upon installation, following any repairs or equipment replacements, or at 30 day intervals. Accessories to BOP equipment will include kelly cock with a handle available, floor safety valves and choke manifold which will also be tested to equivalent pressure.

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 1/2" 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 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.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM 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.5. Lease Serial No.
NMSF078139

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.
E E ELLIOTT A 1C9. API Well No.
30-045-32121-00-X110. Field and Pool, or Exploratory
BLANCO MESAVERDE11. County or Parish, and State
SAN JUAN COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other2. Name of Operator
BP AMERICA PRODUCTION COContact: MARY CORLEY
E-Mail: corleyml@bp.com3a. Address
P. O. BOX 3092
HOUSTON, TX 772533b. Phone No. (include area code)
Ph: 281.366.4491
Fx: 281.366.0700

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 15 T30N R9W NESE Lot 1 2125FSL 945FEL
36.48600 N Lat, 107.45700 W Lon**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

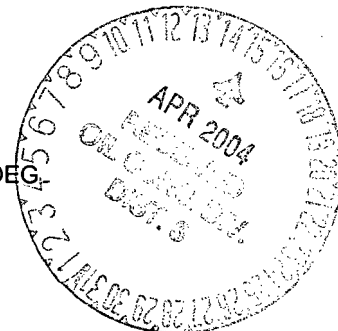
TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> 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"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Change to Original A
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	PD

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.)

Original APD submitted on 01/08/2004, EC Submission 26681. Permit Pending.

BP America submits for your approval amendements to our surface cementing program for the subject well. Please reference attached cementing report for detailed information.

However, should conditions change, BP request as an alternate to conventional drilling program to drill the subject well with air/air mist in lieu of drilling mud and preset the surface casing using approximately 90 CU/FT TYPE I-II, 20% FLYASH, 14.5 PPG, 7.41 GAL/SK, 1.61 CF/SK YIELD, 80 DEG. BHST READY MIX CMT



14. I hereby certify that the foregoing is true and correct.	
Electronic Submission #28046 verified by the BLM Well Information System For BP AMERICA PRODUCTION CO, sent to the Farmington Committed to AFMSS for processing by ADRIENNE GARCIA on 02/20/2004 (04AXG0669SE)	
Name (Printed/Typed) MARY CORLEY	Title AUTHORIZED REPRESENTATIVE
Signature (Electronic Submission)	Date 02/18/2004

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <u>/s/ David J. Markiewicz</u>	Title	APR 13 2004 Date
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.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

NMOCD

Cementing Program

Well Name: E E Elliott A1C
 Location: 15-30N-09W, 2125 FSL, 945 FEL
 County: San Juan
 State: New Mexico

Field: Blanco Mesaverde
 API No.
 Well Flac
 Formation: MesaVerde
 KB Elev (est) 6245
 GL Elev. (est) 6231

Casing Program:

Casing String	Est. Depth (ft.)	Hole Size (in.)	Casing Size (in.)	Thread	TOC (ft.)	Stage Tool Or TOL (ft.)
Surface	120	12 1/4	8 5/8	ST&C	Surface	NA
Intermediate	2614	7 7/8	5 1/2	ST&C	Surface	NA
Production -	5626	4 3/4	2 7/8		2514	NA

Casing Properties:

(No Safety Factor Included)

Casing String	Size (in.)	Weight (lb/ft)	Grade	Burst (psi.)	Collapse (psi.)	Joint St. (1000 lbs.)	Capacity (bbl/ft.)	Drift (in.)
Surface	8 5/8	24	X42	2950	1370	244	0.06368	7.972
Intermediate	5 1/2	15.5	J55	4810	4040	202	0.0238	5.067
Production -	2 7/8	6.5	J-55	7264	7676	72	0.00579	2.375

Mud Program

Apx. Interval (ft.)	Mud Type	Mud Weight	Recommended Mud Properties Prio Cementing:
0 - SCP	Water/Spud	8.6-9.2	Fluid Loss <6
SCP - ICP	Water/LSND	8.6-9.2	
ICP - TD	Gas/Air Mist	NA	

Cementing Program:

	Surface	Intermediate	Production
Excess %, Lead	100	100	40
Excess %, Tail	NA	0	40
BHST (est deg. F)	72	110	159
Time Between Stages, (hr)	NA	NA	NA
Special Instructions	1,6	1,6	2,6

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.

Surface:

Preflush	20 bbl.	FreshWater	
Slurry 1	80 sx Class C Cement		
TOC@Surface	+ 2% CaCl (accelerator)		
	0.25 #/sk Cellophane Flake (lost circulation additive)		
	0.1% D46 antifoam		
Slurry Properties:	Density (lb/gal)	Yield (ft ³ /sk)	Water (gal/sk)
Slurry 1	15.2	1.27	5.8

102
 95 cuft
 0.3961 cuft/ft OH
 100 % excess

Intermediate:

Cementing Program

Fresh Water	20 bbl	fresh water		
Lead		280 sx Class "G" Cement		731
Slurry 1		+ 3% D79 extender		715 cuft
TOC@Surface		+1/4 #/sk. Cellophane Flake		
		+ 0.1% D46 antifoam		
Tail		70 sx 50/50 Class "G"/Poz		87 cuft
Slurry 2		+ 2% gel (extender)		
500 ft fill		0.1% D46 antifoam		0.1733 cuft/ft OH
		+1/4 #/sk. Cellophane Flake		0.2009 cuft/ft csg ann
		+ 2% S1 Calcium Chloride		80 % excess
Slurry Properties:	Density	Yield	Water	
	(lb/gal)	(ft3/sk)	(gal/sk)	
Slurry 1	11.7	2.61	17.77	
Slurry 2	13.5	1.27	5.72	

Production:

Fresh Water	10 bbl	CW100		
Slurry		140 LiteCrete D961 / D124 / D154		353
		+ 0.03 gps D47 antifoam		341 cuft
		+ 0.5% D112 fluid loss		
TOC@Liner Top		+ 0.11% D65 TIC		
Slurry Properties:	Density	Yield	Water	0.078 cuft/ft OH
	(lb/gal)	(ft3/sk)	(gal/sk)	40 % excess
Slurry	9.5	2.52	6.38	0.0886 cuft/ft csg ann

BP American Production Company
Well Control Equipment Schematic

