

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT - " for such proposals

070 FARMINGTON, NM

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.

SF-081239

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

L.C. Kelly 5A

9. API Well No.

3004529252

10. Field and Pool, or Exploratory Area

Blanco Mesaverde

11. County or Parish, State

San Juan New Mexico

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Amoco Production Company

Attention:

Patty Haefele

3. Address and Telephone No.

P.O. Box 800, Denver, Colorado 80201

(303) 830-4988

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

1540' FNL 1490' FEL Sec. 3 T 30N R 12W Unit G

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

TYPE OF SUBMISSION

TYPE OF ACTION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other APD revision

- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Amoco Production Company requests your approval of the attached casing, cementing, and BOP revisions to the APD approved on April 14, 1995.

RECEIVED
SEP 19 1995
OIL CON. DIV.
DIST. 3

14. I hereby certify that the foregoing is true and correct

Signed

Patty Haefele

Title

Staff Assistant

Date

09-13-1995

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

Date

Title 18 U.S.C. Section 1001, makes 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.

* See Instructions on Reverse Side

NMOC

APPROVED

SEP 19 1995
DISTRICT MANAGER

AMOCO PRODUCTION COMPANY

DRILLING and COMPLETION PROGRAM

Lease: L C Kelly
 County: San Juan New Mexico
 Former name:
 Well No. #5A
 Surface Location: 1540' FNL & 1490' FEL of Section 3, T30N, R12W
 Field:

OBJECTIVE: Single MV			
METHOD OF DRILLING		APPROXIMATE DEPTHS OF GEOLOGICAL MARKER	
TYPE OF TOOLS	DEPTH OF DRILLING	Actual GL-----Estimated KB	5854 5866
Rotary	Ground Level - TD	Marker	Depth (ft.) SS Elev. (ft.)
LOGGING PROGRAM		Ojo Alamo	1,421 4,445
TYPE	DEPTH	Kirtland	1,586 4,280
		Fruitland Coal	1,851 4,015
Triple Combo (GR-SP-HRI-SDL-DSN-ML)	Surface to TD	PC	2,161 3,705
		Lewis Shale	2,334 3,532
		Cliff House *	3,755 2,111
		Menefee Shale *	3,905 1,961
		Point Lookout *	4,531 1,335
Logging Program Remarks:		Mancos	4,751 1,115
		Gallup	
		Greenhorn	
		Dakota	
		TOTAL DEPTH	4,901 965
		* Possible pay	
		** Probable completion	
		Ojo Alamo is possible usable water	
SPECIAL TESTS		DRILL CUTTING SAMPLES	DRILLING TIME
TYPE	DEPTH INTERVAL, ETC	FREQUENCY	DEPTH
None		None	Geograph Surf - TD
Remarks:		Remarks:	
		Mud Logging Program: None	
		Coring Program: None	

MUD PROGRAM:

Approx. Interval	Type Mud	Weight, #/gal	Vis, sec/qt	W/L, cc's/30 min.
50' - 2484' (1) (2)	Water	8.6 - 9.2	Sufficient to clean hole	N/C
2484' - TD (3)	Air/Gas			

Mud Program Remarks:

- 1 - The hole will require sweeps to keep unloaded while fresh water drilling. Let hole conditions dictate frequency.
- 2 - If required to mud up, mud up with a LSND designed for good hole cleaning.
- 3 - If required to mud up, mud up with a LSND designed for good hole cleaning, API WL between 10 -15.

CASING PROGRAM:

Casing String	Estimated Depth	Casing Size	Hole Size	Landing Point, Cement, Etc
Conductor	120	8-5/8"	12.25"	
Surface	2,484	5-1/2"	6.75"	1, 2
Production	4,901	2-7/8"	4.75"	3

Casing Program Remarks:

- 1 - Circulate cement to surface.
- 2 - Set casing 150' into the Lewis Shale.
- 3 - Circulate cement at least 200' into the surface casing overlap.

GENERAL REMARKS:

Business Unit Engineering staff to design completion program.

Form 46 Reviewed by:

Logging program reviewed by:

PREPARED BY:

APPROVED:

APPROVED:

P. Edwards/Craig/Ovitz

For Production Dept

For Exploration Dept

Form 46 7-84bw

Date: 3/8/95

Rev. Date: 9/13/95 13:42

File: kelly05a.xlw

CEMENTING PROGRAM

blp

L C Kelly #5A

Well Name: **L C Kelly #5A**
Location: 1540' FNL X 1490' FEL, Sec 03, T30N, R12W
County: San Juan
State: New Mexico

Field:
API No.
Well Flac
Formation: Mesa Verde
KB Elev. (est.) 5866 ft.
GL Elev. (est.) 5854 ft.

Casing Program:

Casing String	Est. Depth (ft.)	Hole Size (in.)	Casing Size (in.)	Casing Weight (lb/ft.)	Casing Grade	Thread	TOC (ft.)
Conductor	120	12.25	8.625	24	J-55	8R, ST&C	Surface
Surface	2,484	6.75	5.500	14	J-55	8R, ST&C	Surface
Production	4,851	4.75	2.875	6.5	N-80	8R, EUE	2250

Casing Properties:

(No Safety Factor Included)

Casing String	Casing Weight (lb/ft.)	Burst (psi.)	Collapse (psi.)	Joint St. (1000 lbs.)	Capacity (bbl/ft.)	Torque(ft. lbs.) Opt/Min/Max	Drift (in.)
Conductor	24	2950.00	1370	244	0.0636		7.972
Surface	14	4270	3120	172	0.0244		6.241
Production	6.4	10570	11160	144	0.00579		2.347

Mud Program:

Apx. Interval (ft.)	Mud Type	Mud Weight (lb/gal)	Recommended Mud Properties Prior Cementing:	
			PV	< 20
			YP	< 10
0 - SCP	Spud	8.6-9.2	Fluid Loss	< 15
SCP - TD	Air	NA		

Cementing Program:

	Surface	Production
Excess %, Bit	60	30
Excess %, Caliper	NA	20
BHST (est. deg. F)	100	140
Pipe Movement	NA	NA
Rate, Max. (bpm)	5	4
Rate, Recommended (bpm)	4	4
Pressure, Max. (psi)	200	2000
Shoe Joint	80	40
Batch Mix	NA	NA
Circulating prior cmtng (hr.)	1.5	1
Time Between Stages, (hr.)	NA	NA
Special Instructions	1,6,8	2,4,6

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

Notes:

- *** Displace top plug on the production casing job with 0.2% Clay Fix II or 2% KCl water.
- *** Do not wash up on top of plug. Wash pumps and lines. We want to do rig loss completions.

CEMENTING PROGRAM

L C Kelly #5A

Conductor:

Preflush	10 bbl.	Fresh Water	
Slurry 1 TOC@Surface	100 40 sk	Standard Cement + 2% CaCl ₂ (not mixed) or 1.5 cu. yard Ready Mix	47 cu. ft.

Slurry Properties:	density (lb/gal)	yield (ft ³ /sk)	water (gal/sk)
slurry 1	15.60	1.18	5.20

Casing Equipment: (Halliburton) 8 5/8", 8R, ST&C

1 Top Wooden Plug

Surface:

Preflush	20 bbl. 10 bbl.	Mud Flush Fresh Water + dye marker	
Slurry 1 TOC@Surface		50/50 Standard Cement/Blended Silicalite + 0.2% gel (total) + 0.5% Versaset + 0.4% Hølad-344 + 0.2% CaCl ₂ + 1/4 lb/sk floccle	333 cu. ft.

Slurry Properties:	density (lb/gal)	yield (ft ³ /sk)	water (gal/sk)
slurry 1	12.00	2.03	11.45

Casing Equipment: (Halliburton) 5 1/2", 8R, ST&C

1 Type Regular Guide Shoe
1 Super Seal II Float Collar
1 Weld A
15 S-4 Centralizer 1 ea. on 1st 12 joints, 1 ea. above and below Ojo Alamo
1 Top Rubber Plug

CEMENTING PROGRAM

L C Kelly #5A

Production:

Proflush	5 bbl.	Chemical Wash	
	2 bbl.	Fresh Water	
Lead Cement		50/50 Std. Cmt/Poz A	263 cu. ft.
Slurry 1		+ 2% gel (total)	
TOC @ 2250 ft.		+ 5 lb/sk gilsonite	
		+ 0.4% Halad-344	
		+ 1/4 lb/sk floccolo	

Slurry Properties:	density (lb/gal)	yield (ft ³ /sk)	water (gal/sk)
slurry 1	13.50	1.32	5.59

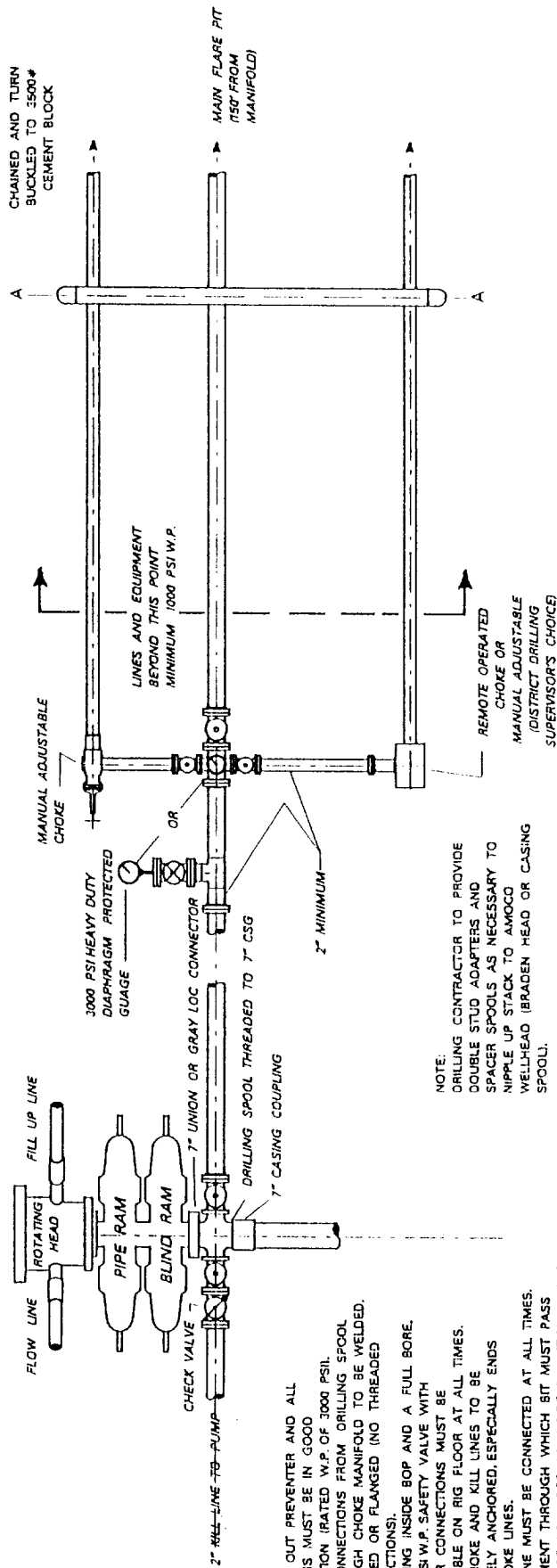
Note: The job should be pumped at 4 bpm max rate. Do not exceed 2 bpm on displacement.
Slow to 2 bpm for the displacement. Displace with 2% KCl or 0.2% Clay Fix II water.
This is to be a rigless completion.

Casing Equipment: Halliburton 2 7/8", 8R, EUE, (no need to cut long pin)

- 1 Super Seal II Float Shoe
- 10 S-4 Fluidmaster Centralizer
- 1 Lock Clamp
- 1 Weld A
- 1 Omega Latch Down Plug and Baffle

MINIMUM BLOW-OUT PREVENTER REQUIREMENTS 7 7/8" OR 11" (NOMINAL) 3,000 PSI W.P.

Typical Dakota / Mesaverde Air/Mud (SR8U)



NOTE:

1. BLOW OUT PREVENTER AND ALL FITTINGS MUST BE IN GOOD CONDITION (RATED W.P. OF 3000 PSI).
2. ALL CONNECTIONS FROM DRILLING SPOOL THROUGH CHOKE MANIFOLD TO BE WELDED, CLAMPED OR FLANGED (NO THREADED CONNECTIONS).
3. A STRING INSIDE BOP AND A FULL BORE, 3000 PSI W.P. SAFETY VALVE WITH PROPER CONNECTIONS MUST BE AVAILABLE ON RIG FLOOR AT ALL TIMES.
4. ALL CHOKE AND KILL LINES TO BE SECURELY ANCHORED, ESPECIALLY ENDS OF CHOKE LINES.
5. KILL LINE MUST BE CONNECTED AT ALL TIMES.
6. EQUIPMENT THROUGH WHICH BIT MUST PASS SHALL BE AS LARGE AS INSIDE DIAMETER OF THE CASING BEING DRILLED THROUGH.
7. MUST HAVE UPPER AND LOWER KELLY COCK ON KELLY.
8. BLOW-OUT PREVENTER CLOSING EQUIPMENT SHALL HAVE SUFFICIENT CAPACITY TO FULFILL REQUIREMENTS OF CURRENT FEDERAL REGISTOR (43 CFR) DATED NOV. 1988.
9. NO COLLECTOR BOTTLES, SURGE TANKS OR BUFFER CHAMBERS DOWNSTREAM OF THE CHOKE MANIFOLD.
10. ALL TURNS TO BE MADE WITH TARGETED TEES (18-24" MIN.), NO BENDS OR SWEEPS IN LINE FROM BOP TO CHOKE MANIFOLD.
11. IF A FLEXIBLE HOSE IS TO BE USED AS A CHOKE LINE, IT MUST BE APPROVED BY AMOCO PRIOR TO RIGGING UP.
12. LOCK TO BE INSTALLED ON BLIND RAM CONTROL.

NOTE:

1. DRILLING CONTRACTOR TO PROVIDE DOUBLE STUD ADAPTERS AND SPACER SPOOLS AS NECESSARY TO NIPPLE UP STACK TO AMOCO WELLHEAD (BRADEN HEAD OR CASING SPOOL).

NOTE:

1. ALL UNMARKED VALVES TO BE FULL-OPENING GATE OR PLUG VALVES, METAL TO METAL SEAL, 3000 PSI W.P.

NOTE:

1. CHOKE ASSEMBLY VERTICAL FOR ILLUSTRATION ONLY. SHOULD BE HORIZONTAL ON RIG. ANCHOR ALL LINES SECURELY EVERY 30' AND WITHIN 5' OF END OF LINE.
2. DRILLING CONTRACTOR TO BE RESPONSIBLE FOR PROVIDING ALL LINES AND VALVES.

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 surface to total depth. No abnormal temperature, pressures, or Hydrogen Sulfide gas is anticipated.

Equipment Specification

Interval

BOP Equipment

Below surface casing to total depth

11" 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, upper kelly cock with a handle available, floor safety valves and choke manifold which will also be tested to equivalent pressure at the appropriate intervals.

Amoco Production Company
BOP Pressure Testing Requirements

Lease: L C Kelly
County: San Juan

Well No. #5A
State: New Mexico

Formation	TVD	Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure **
Ojo Alamo	1,421		
Kirtland	1,586		
Fruitland Coal	1,851		
PC	2,161		
Lewis Shale	2,334		
Cliff House *	3,755	1200	373.9
Menefee Shale *	3,905		
Point Lookout *	4,531	900	0
Mancos	4,751		
Gallup	0		
Greenhorn	0		
Dakota	0		

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

Requested BOP Pressure Test Exception: 500