

UNITED STATES
DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

Form approved.
Budget Bureau No. 1004-0136
Expires: December 31, 1991

1a. TYPE OF WORK
DRILL ☒ **DEEPEN** ☐

1b. TYPE OF WELL
OIL WELL ☐ GAS WELL ☒ Other ☐ SINGLE ZONE ☒ MULTIPLE ZONE ☐

2. NAME OF OPERATOR
AMOCO PRODUCTION COMPANY
Attention: Mary Corley

3. ADDRESS AND TELEPHONE NO.
P.O. BOX 3092 HOUSTON, TX 77253
281-366-4491

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)
At surface 1100' FNL 1605' FEL
At proposed prod. zone Unit B

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
16. NO. OF ACRES IN LEASE 320
17. NO. OF ACRES ASSIGNED TO THIS WELL 320

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 5311

19. PROPOSED DEPTH 5311

20. ROTARY OR CABLE TOOLS

21. ELEVATIONS (Show whether DF, RT, GR., etc.)
This action is subject to a 30-day procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4
6007' GR

22. APPROX. DATE WORK WILL START*
06-25-2000

5. LEASE DESIGNATION AND SERIAL NO.
SF 077231 A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME, WELL NO.
Shaw Gas Com 1R

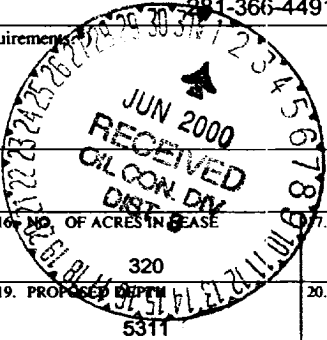
9. API WELL NO.
30-045-30228

10. FIELD AND POOL, OR WILDCAT
BLANCO MESAVERDE

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 14
Towship 30N Range 9W

12. COUNTY OR PARISH
San Juan

13. STATE
New Mexico



PROPOSED CASING AND CEMENTING PROGRAM								
SIZE OF HOLE	GRADE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT	DENSITY (lb/gal)	YIELD (ft ³ /sk)	WATER (gal/sk)	EXCESS %
12 1/4"	H 40 9 5/8"	32.3#	135'	125 SXS (149 CU.FT.) CLS B CIRC TO SURFACE	15.6	1.19	5.2	100%
8 3/4"	J-55 7"	20#	2320'	160 SXS (461 CU.FT.) CLS B - LEAD 134 SXS (159 CU.FT.) CLS B - TAIL	11.4 15.6	2.88 1.19	16.62 5.25	100%
6 1/4"	J-55 4 1/2"	10.5#	5311'	193 SXS (403 CU.FT.) CemPlus Blend (LiteCrete)	10	2.09	6.68	70%

NOTICE OF STAKING SUBMITTED 04/14/2000

OBJECTIVE: Drill 100' into the Mancos shale, set 4 1/2" Liner across MV, perf & stimulate Cliff House, Menefee, & Point Lookout.

METHOD OF DRILLING: Rotary/Top Drive DEPTH OF DRILLING: 0' - TD
LOG PROGRAM TYPE: Cased Hole (GR-CCL-TDT) DEPTH INTERVAL: TDT - PBTD to Top of Liner GR & CCL - PBTD to 0'
MUD PROGRAM: INTERVAL TYPE MUD WEIGHT
0' - 135' (3 JTS) Spud
135' - 2320' Water/LSND
2320' - TD Gas/Air/Mist
DRILLING OPERATIONS ARE SUBJECT TO COMPLETION WITH ATTACHED 8.6-9.2 "GENERAL REQUIREMENTS"
Volume sufficient to maintain a stable and clean wellbore

- (1) Circulate Cement to Surface (2) Set Casing 50' above Fruitland Coal (3) Liner Lap should be a minimum of 100'
COMPLETION: Rigless, 2-3 Stage Limited Entry Hydraulic Frac Replacement for Shaw Gas Com well # 1.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Mary Corley TITLE SR BUSINESS ANALYST DATE 05-04-2000

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

Application approval 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.

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY /s/ Jim Lovato TITLE _____ DATE MAY 30 2000

*See Instructions On Reverse Side

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.

MAILED HOLD C104 FOR Notice of P&A of Shaw Gas Com 1
30-045-09526

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 30 045-30228	² Pool Code 72319	³ Pool Name Blanco Mesaverde
⁴ Property Code 001045	⁵ Property Name Shaw Gas Com	⁶ Well Number # 1R
⁷ OGRID No. 000178	⁸ Operator Name AMOCO PRODUCTION COMPANY	⁹ Elevation 6007

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
B	14	30 N	9 W		1100	NORTH	1605	EAST	SAN JUAN

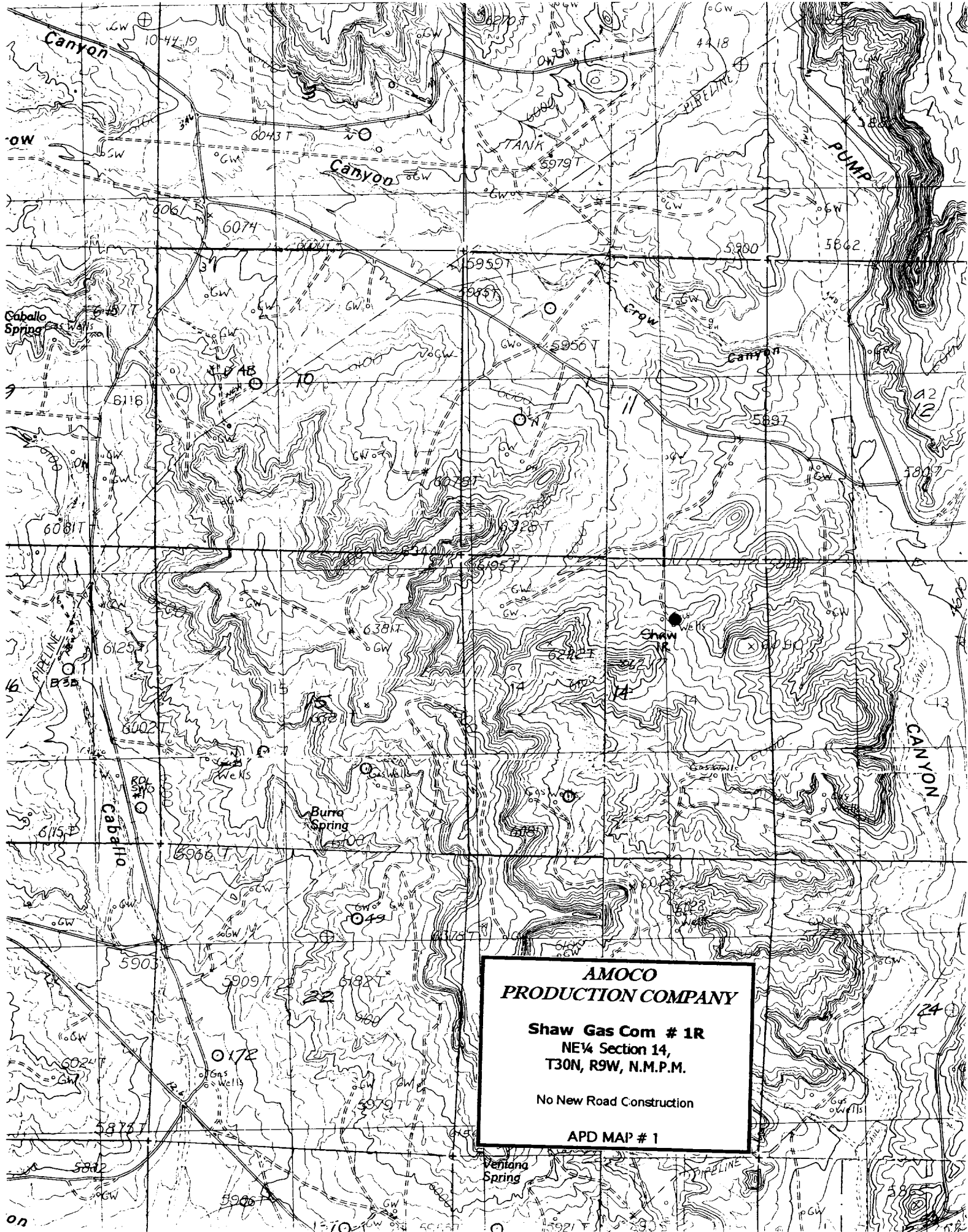
¹¹ Bottom Hole Location If Different From Surface

⁷ UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

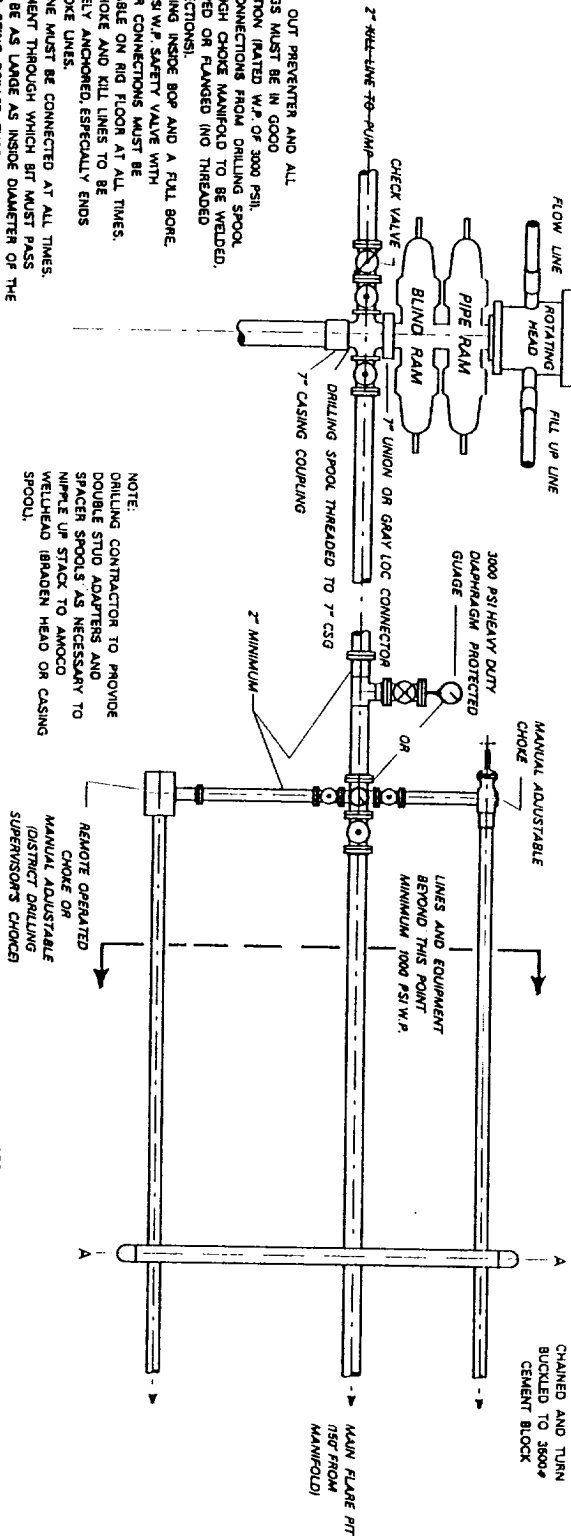
¹² Dedicated Acres 320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<div></div>	<div><p>¹⁷ OPERATOR CERTIFICATION</p><p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p><p>Signature: <i>Mary Corley</i></p><p>Printed Name: Mary Corley</p><p>Title: Sr. Business Analyst</p><p>Date: 5/4/2000</p></div> <div><p>¹⁸ SURVEYOR CERTIFICATION</p><p>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.</p><p>Date of Survey: April 4, 2000</p><p>Signature and Seal of Professional Surveyor: <i>Gary D. Vann</i></p><p>7016</p><p>Certificate Number</p></div>
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MINIMUM BLOW-OUT PREVENTER REQUIREMENTS $\frac{7}{8}$ " OR 1" (NOMINAL) 3,000 PSI W.P. Typical Dakota / Mesaverde Air / Mud (SRBU)



- NOTE:
1. BLOW OUT PREVENTER AND ALL FITTINGS MUST BE IN GOOD CONDITION (PAINTED 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 REGISTER (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 TIES (18-24 MIN.), NO BENDS OR SWEGERS IN LINE FROM BOP TO CHOKE MANIFOLD.
 11. IF A FLEXIBLE HOSE IS TO BE USED AS CHOKE LINE, IT MUST BE APPROVED BY AMOCO PRIOR TO RIGGING UP.
 12. LOCK TO BE INSTALLED ON BUNG RAM CONTROL.

- NOTE:
- DRILLING CONTRACTOR TO PROVIDE DOUBLE STUD ADAPTERS AND SPACER SPOOLS AS NECESSARY TO NIPPLE UP STACK TO AMOCO WELHEAD (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.
 2. DRILLING CONTRACTOR TO BE RESPONSIBLE FOR PROVIDING ALL LINES AND VALVES.