

RCVD OCT 8 '09

OIL CONS. DIV.

DIST. 3

JC Burnside  
100Form 3160-3  
(November 1983)  
(formerly 9-331C)SUBMIT IN TRIPLICATE\*  
(Other instructions on  
reverse side)Form approved.  
Budget Bureau No. 1004-0136  
Expires August 31, 1985UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK <b>DRILL</b> <input checked="" type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/> <b>PLUG BACK</b> <input type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO. SF-080844	
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Amoco Production Company			7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR 501 Airport Drive, Farmington, NM 87401			8. FARM OR LEASE NAME T.L. Rhodes "C"	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 210' FSL x 2340' FWL At proposed prod. zone Same			9. WELL NO. 2E	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 8 miles southwest of Bloomfield, NM			10. FIELD AND POOL, OR WILDCAT Basin Dakota	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drilg. unit line, if any) 210'			11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA SE/SW Sec. 30, T28N, R11W	
16. NO. OF ACRES IN LEASE 1593.85			12. COUNTY OR PARISH San Juan	
17. NO. OF ACRES ASSIGNED TO THIS WELL 320			13. STATE NM	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 3100'N			19. PROPOSED DEPTH 6518'	
20. ROTARY OR CABLE TOOLS Rotary			21. APPROX. DATE WORK WILL START* As soon as permitted	
22. ELEVATIONS (Show whether DF, RT, GR, etc.) 6000' GR				

23. PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24#, J-55	300'	354 c.f. Class B
8-3/4"	4-1/2"	10.5#, K-55	6518'	2463 c.f. Class B
(This string may be two staged but the cement types and volumes remain the same).				

Amoco proposes to drill the above well to further develop the Basin Dakota reservoir. The well will be drilled to the surface casing point using native mud. The well will then be drilled to TD with a low solids nondispersed mud system. Completion design will be based on open hole logs. Copy of all logs will be filed upon completion. Amoco's standard blowout prevention will be employed; see attached drawing for blowout preventer design. Upon completion the well site will be cleaned and the reserve pit filled and leveled. The gas from this well is dedicated to El Paso Natural Gas under contract No. 56,742.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, 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.

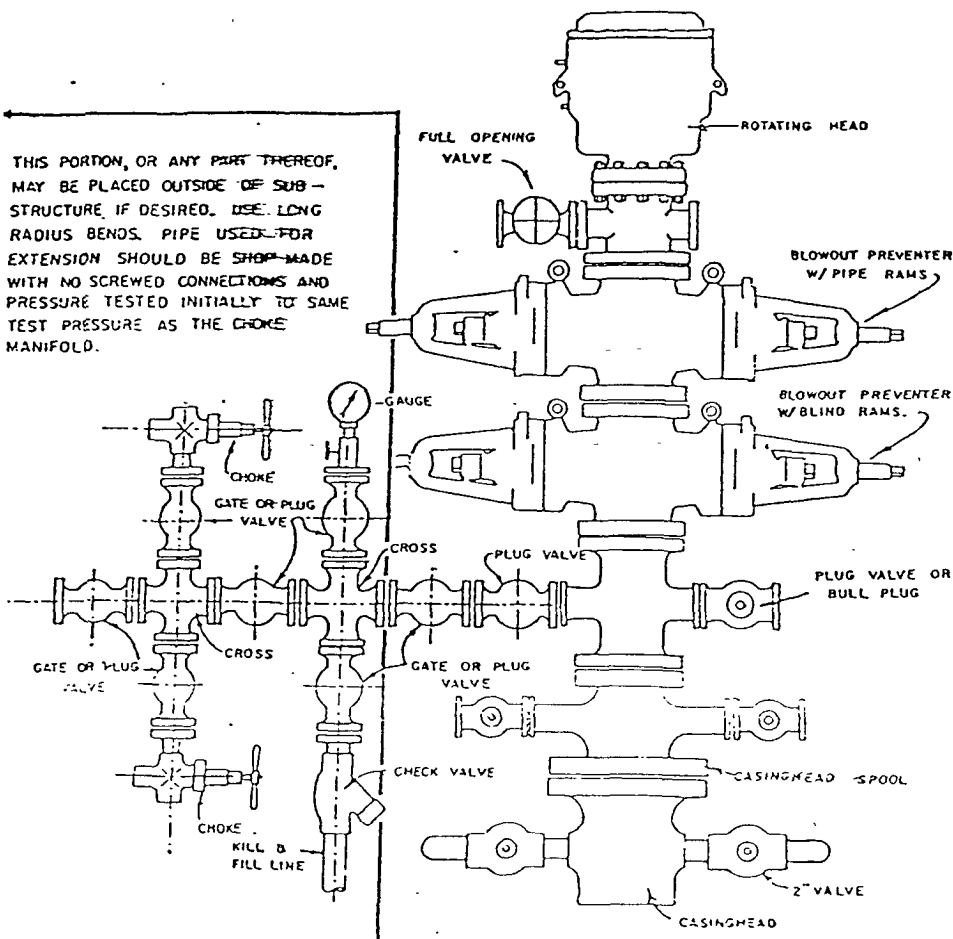
24. Original Signed By  
SIGNED B. D. Shaw TITLE Administrative Supervisor DATE 10/25/84

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

1. Blowout Preventers and Master Valve to be fluid operated, and all fittings must be in good condition.
2. Equipment through which bit must pass shall be as large as the inside diameter of the casing that is being drilled through.
3. Nipple above Blowout Preventer shall be same size or larger than BOP being drilled through.
4. All fittings to be flanged.
5. Omsco or comparable safety valve must be available on rig floor at all times with proper connection or sub. The I.D. of safety valve should be as great as I.D. of tool joints of drill pipe, or at least as great as I.D. of drill collars.



BLOWOUT PREVENTER HOOKUP

API Series # 900

EXHIBIT D-4

OCTOBER 16, 1965

Operation of BOP by closing both pipe and blind rams will be tested each trip or, on long bit runs, pipe rams will be closed once each 24 hours.

I. L. Rhodes "C" No. 2E

SUPPLEMENTAL INFORMATION TO FORM 9-331C

The geological name of the surface formation is the Nacimiento.

Estimated tops of important potential hydrocarbon bearing formations:

<u>FORMATION</u>	<u>DEPTH</u>	<u>ELEVATION</u>
Ojo Alamo	675'	5338'
Fruitland	1088'	4925'
Pictured Cliffs	1835'	4178'
Chacra	2275'	3238'
Cliffhouse	3399'	2614'
Menefee	3533'	2480'
Point Lookout	4277'	1736'
Gallup	5449'	564'
Dakota	6337'	-324'
Morrison Bluff		
Summerville		
Todilto		
Entrada		
Navajo		
Wingate		
Chinle		
DeChelly		
Hermosa		
Molas		
Mississippian Leadville		

Estimated KB elevation: 6013'.

Drilling fluid to TD will be a low solids non-dispersed mud system. Open hole logging program will include logs from TD to below surface casing.

DIL-SP-GR 5375'-TD

FDC-CNL-GR 5375'-TD

Completion design will be based on these logs. No cores or drill stem tests will be taken.

Operations will commence when permitted and last approximately 10 weeks.

Amoco's standard blowout prevention will be employed (see attached drawing).

PE7

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

CONSERVATION DIVISION  
P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501

Form C-107  
Revised 10-1

All distances must be from the outer boundaries of the Section.

Operator AMOCO PRODUCTION COMPANY			Lease T. L. RHODES "C"		Well No. 2E
Unit Letter N	Section 30	Township 28N	Range 11W	County San Juan	
Actual Footage Location of Well: 210 feet from the South line and 2340 feet from the West line					
Ground Level Elev: 6000	Producing Formation Dakota	Pool Basin Dakota	Dedicated Acreage 320 Acres		

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☒ No If answer is "yes," type of consolidation \_\_\_\_\_

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.

<div style="text-align: center;">Sec.</div>			
<div style="text-align: center;">30</div>			
<div style="text-align: center;">2340'</div>			
<div style="text-align: center;">210'</div>			

CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Original Signed by  
B. D. Shaw

Name  
B. D. Shaw  
Position  
Administrative Supervisor  
Company  
Amoco Production Co.  
Date  
10/25/84

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 knowledge and belief.

Date Surveyed  
September 14, 1984  
Registered Professional Engineer and Land Surveyor  
Fred B. Kerr Jr.  
Certificate No. 10000

T.L. RHODES "C" NO. 2E  
MULTI-POINT SURFACE USE PLAN

1. The attached topographic map shows the proposed route to the location.
2. An access road 300' in length and 20' in width will be built.
3. Existing oil and gas wells within a one-mile radius of our proposed well have been spotted on the vicinity map.
4. There is an oil well located 3,100' north.
5. Water will be hauled from the San Juan River.
6. No construction materials will be hauled in for this location.
7. A 100' by 100' pit, fenced on 3 sides, will be built on location to hold all drilling waste and upon completion of the well, the 4th side will be fenced. Drilling mud will be allowed to evaporate. Sanitary facilities and a steel mesh portable trash container will remain on location throughout drilling operations and will then be trucked to a designated disposal area.
8. There are neither airstrips nor camps in the vicinity.
9. The well site layout, reserve, burn and trash pits are shown on the attached Drill Site Specification Sheet.
10. Restoration of the surface will be accomplished by cleaning up and leveling upon completion of the well. Reseeding of the site will be carried out as instructed by the Bureau of Land Management.
11. The general topography is a gentle northwestern slope vegetated with native grasses.
12. Representatives of the Bureau of Land Management, Farmington, inspected the site with Amoco personnel.

Cultural resources inspection was conducted by a contract archaeologist.

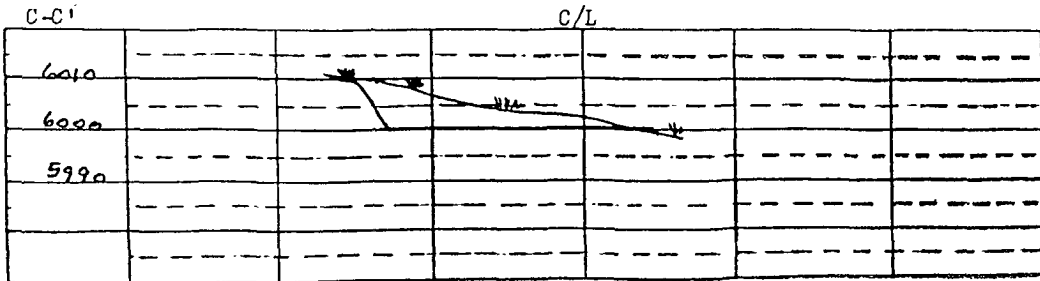
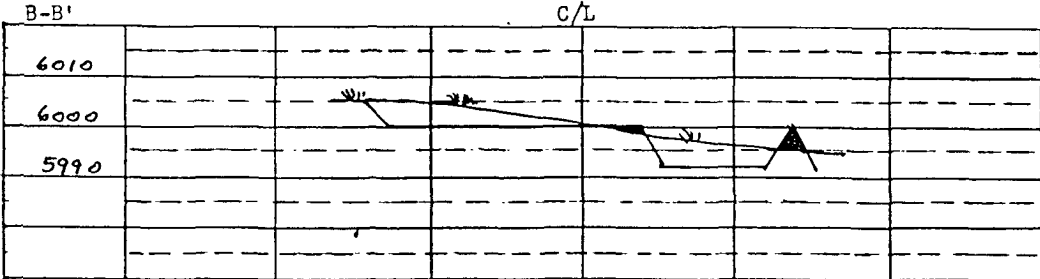
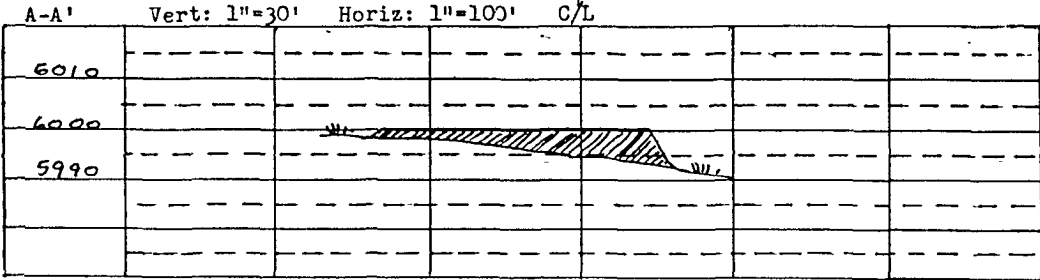
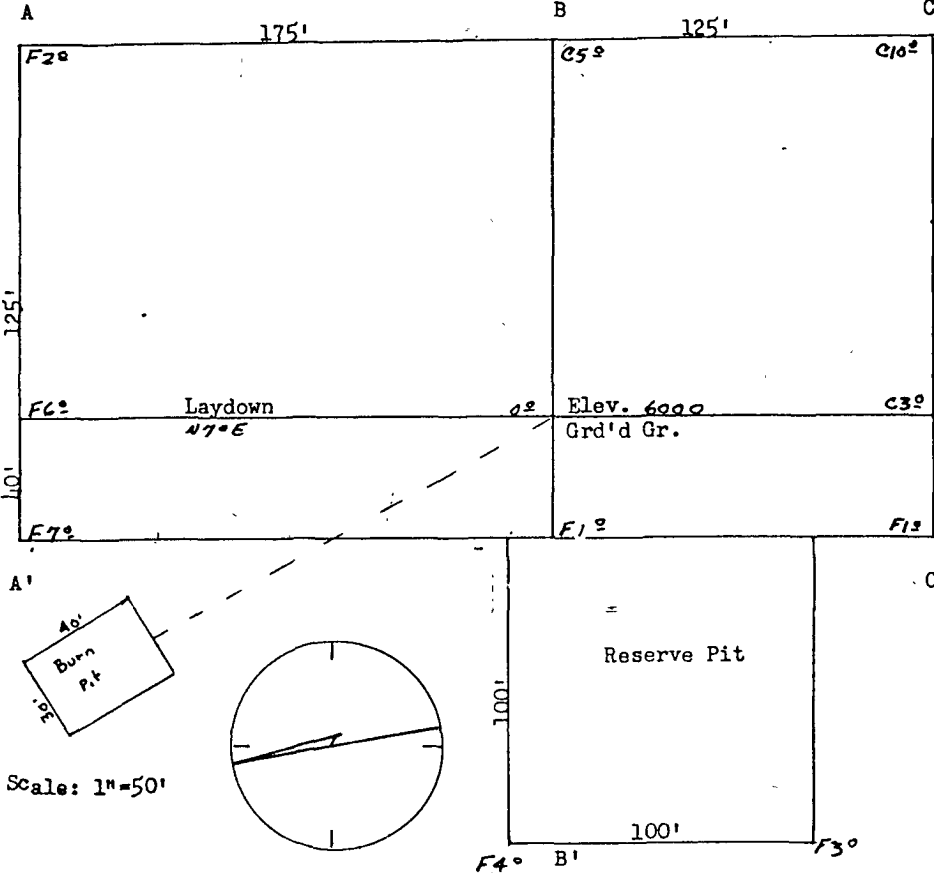
Operator's Representative: W. J. Holcomb  
Office Phone: (505) 325-8841  
Address: 501 Airport Drive, Farmington, NM 87401

Certification: I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route, that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by AMOCO PRODUCTION COMPANY and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

Date: 10/25/84

W. J. Holcomb  
W. J. Holcomb - District Manager

AMOCO PRODUCTION CO. #2E T.L. RHODES  
210' FSL 2340' FWL Sec. 30-T28N-R11W  
SAN JUAN COUNTY, NEW MEXICO



R12W

R11W

24 ▲ Amoco GCW #243 ▲ Amoco GCW #242 ▲ Amoco GCW #241E ▲ Amoco GCW #242E	19 ▲ Amoco GCW #168E ▲ Amoco GCW #182E ▲ Amoco GCW #182	20 Pioneer ▲ Rhodes #1 Amoco ▲ T.L. Rhodes B #1
25 Clinton Oil Amoco GCW #265	30 Amoco T.L. Rhodes C #1 Amoco T.L. Rhodes C #2	29 Arco Krause WN Federal #6E Arco Krause WN Federal #8E Arco Krause WN Federal #8E Arco Krause WN Federal #1E Arco WN Federal #7 Arco WN Federal #1
36 Clinton Oil Amoco GCW #245 Amoco GCW #244	31 Amoco T.L. Rhodes C #3 Amoco GCW #95 Amoco GCW #95E	32 Arco Krause WN Federal #1E Arco WN Federal #7 Arco WN Federal #7E Arco WN Federal #1

T 28 N

▲ BASIN DAKOTA WELLS

