

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-045-25534
5. LEASE DESIGNATION AND SERIAL NO.

SF-077972

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
DRILL ☒ DEEPEN ☐ PLUG BACK ☐

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

2. NAME OF OPERATOR
Amoco Production Company

3. ADDRESS OF OPERATOR
501 Airport Drive, Farmington, NM 87401

4. LOCATION OF WELL (Report location clearly and in accordance with instructions on reverse side)
At surface 1625' FNL x 1575' FWL

At proposed prod. zone Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
Approximately 8 miles south of Farmington, N.M.

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any) 1575'

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 2909'

21. ELEVATIONS (Show whether DF, RT, CR, etc.)
5936' GL

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH
12-1/4"	8-5/8"	24# K-55	300'
7-7/8"	4-1/2"	10.5# K-55	6200'

Amoco proposes to drill the above well to further develop the Basin Dakota reservoirs. 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 non-dispersed 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 location will be cleaned and the reserve pit filled and leveled.
The gas produced from this well is dedicated to El Paso Natural Gas under Contract No. 56742.

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.

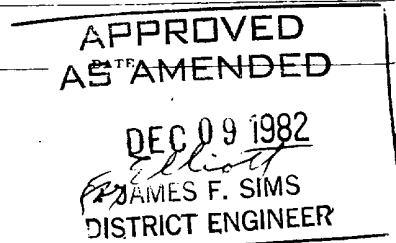
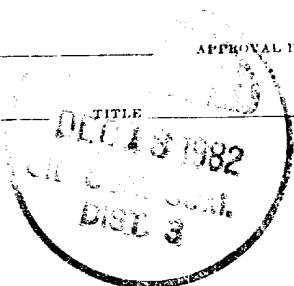
24. Original Signed By
SIGNED D. H. SHOEMAKER TITLE District Engineer DATE 10/26/82

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY: _____

ch 7



NMOCC

OIL CONSERVATION DIVISION

P. O. BOX 2088

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

Form C-107
Revised 10-1-78

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

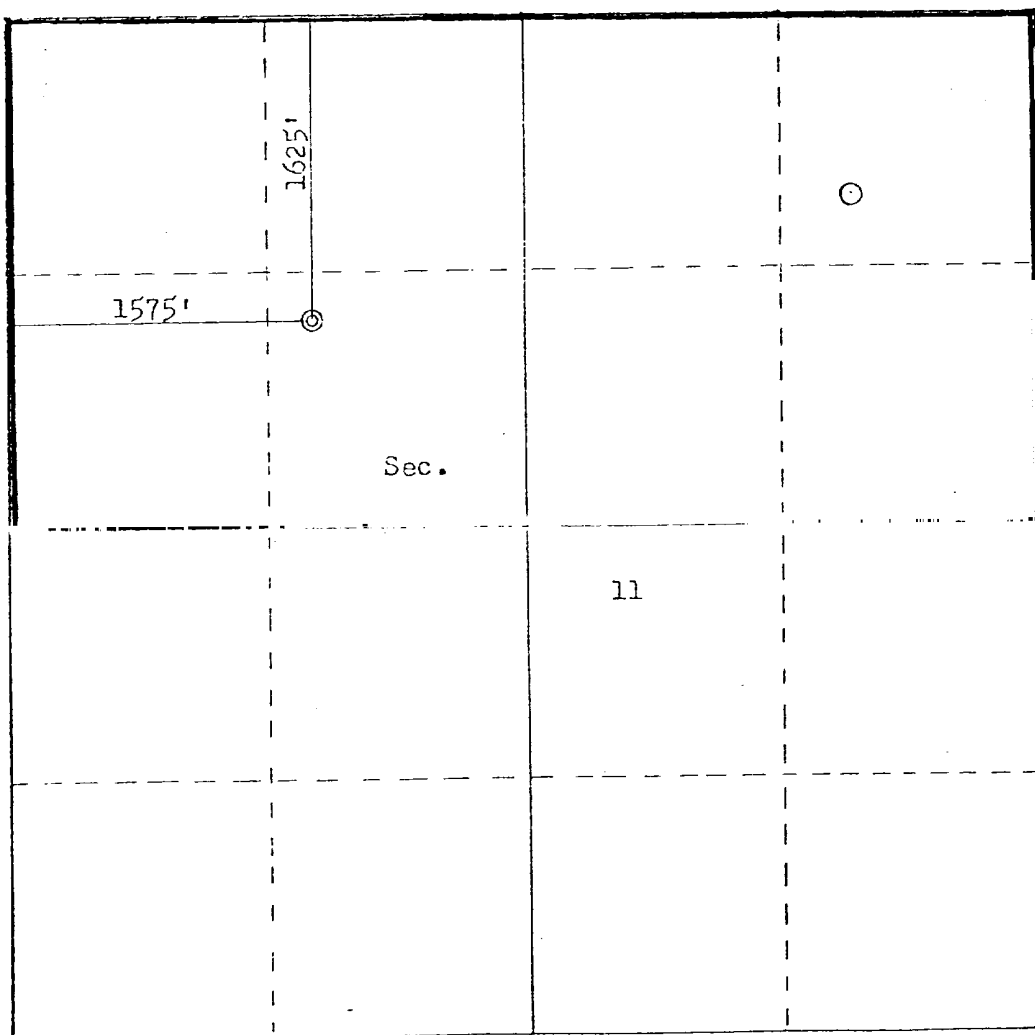
Operator AMOCO PRODUCTION COMPANY			Lease RICHARDSON GAS COM "B"		Well No. 1E
Unit Letter F	Section 11	Township 27N	Range 13W	County San Juan	
Actual Footage Location of Well: 1625 feet from the North line and 1575 feet from the West line					
Ground Level Elev. 5936	Producing Formation Dakota		Pool Basin Dakota	Dedicated Acreage: N 320 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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 Communitization

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.



Scale: 1"=1000'

CERTIFICATION

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

Dale H. Shoemaker

Name

Dale H. Shoemaker

Position

District Engineer

Company

Amoco Production Company

Date

October 21, 1982

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 13, 1982

Registered Professional Engineer
and Land Surveyor

Fred B. Kerr Jr.
Fred B. Kerr Jr.

Certificate No.

3950

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input checked="" type="checkbox"/> Special				Test Date 1-28-83	
Company Amoco Production Company			Connection El Paso Natural Gas Company		
Pool Basin			Formation Dakota		Unit
Completion Date 1-8-83		Total Depth 6204	Plug Back TD 6168	Elevation 5936	Farm or Lease Name Richardson Gas Com "B"
Csq. Size 4.500	Wt. 11.6	d 4.000	Set At 6204	Perforations: From 6014 To 6126	Well No. 1E
Trq. Size 2.375	Wt. 4.7	d 1.995	Set At 6118	Perforations: From open To ended	Unit Sec. Twp. Rye. F 11 27 13
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None	County San Juan
Producing Thru Tubing		Reservoir Temp. °F 8	Mean Annual Temp. °F	Baro. Press. - P _a	State New Mexico
L	H	Gg	% CO ₂	% N ₂	% H ₂ S
Prover		Meter Run		Taps	

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI	12 Days						1432		1435		
1.	2.375		.750				268		694		3 hrs
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		280	1.000	.9258	1.033	3311
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _c 1447 P _c ² 2093809					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.3124$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.2262$
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²		
1		706	498436	1595373		
2						
3						
4						
5						

Absolute Open Flow 4060			Mcf @ 15.025	Angle of Slope @ _____
Remarks: _____				
Approved By Division _____ Conducted By: _____ Calculated By: _____ Checked By: _____				

RECEIVED

FEB 11 1983

OIL CON. DIV

DIST. 75