

NO. OF COPIES RECEIVED		
DISTRIBUTION		
SANTA FE		
FILE		
U.S.G.S.		
LAND OFFICE		
OPERATOR		

NEW MEXICO OIL CONSERVATION COMMISSION

30-045-25616

Form C-101
Revised 1-1-65

5A. Indicate Type of Lease	
STATE <input type="checkbox"/>	FEE <input checked="" type="checkbox"/>

5. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work		7. Unit Agreement Name	
b. Type of Well DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		8. Farm or Lease Name Abrams "K"	
2. Name of Operator Amoco Production Company		9. Well No. 1	
3. Address of Operator 501 Airport Dr., Farmington, NM 87401		10. Field and Pool, or Wildcat Armenta Gallup	
4. Location of Well UNIT LETTER <u>I</u> LOCATED <u>1850</u> FEET FROM THE <u>South</u> LINE AND <u>350</u> FEET FROM THE <u>East</u> LINE OF SEC. <u>26</u> TWP. <u>29N</u> RGE. <u>10W</u> NMPM		12. County San Juan	
19. Proposed Depth 5800		19A. Formation Gallup	20. Rotary or C.T. Rotary
21. Elevations (Show whether DF, RT, etc.) 5567' KB	21A. Kind & Status Plug. Bond Statewide	21B. Drilling Contractor Unknown	22. Approx. Date Work will start As soon as permitted

23.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12-1/4"	11-3/4"	H-40 42#	300'	51 sx	Surface
9-7/8"	8-5/8"	H-40 28#	3420'	360 sx	Surface
6-3/4"	5-1/2"	K-55 15.5#	5800'	334 sx	2000'

Amoco proposes to drill the above well to further develop the Armenta Gallup 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 nondispersed mud system. Completion design will be based on open hole logs. Copies of all logs will be filed upon completion. Amoco's standard blowout prevention will be employed; see attached drawing for blowout preventer design.

The gas produced from this well has not been dedicated.

RECEIVED

MAR 16 1983

OIL CON. DIV.
DIST. 3

APPROVED BY
UNLESS OTHERWISE SPECIFIED
SPUD DATE
WITH ONE

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. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY:

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

Original Signed By
Signed D. H. SHOEMAKER Title District Engineer Date 3-14-83

(This space for State Use)

APPROVED BY [Signature] TITLE [Signature] DATE [Signature]

CONDITIONS OF APPROVAL, IF ANY:

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-107
Revised 10-1-78STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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

Operator AMOCO PRODUCTION COMPANY			Lease ABRAMS "K"		Well No. 1
Unit Letter I	Section 26	Township 29N	Range 10W	County San Juan	
Actual Footage Location of Well: 1850 feet from the South line and 350 feet from the East line					
Ground Level Elev: 5554	Producing Formation Gallup		Pool ARMENTA GALLUP		Dedicated Acreage: 40 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 _____

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.

		RESERVED EARL E. JONES OIL CON. DIV. DIST. 3	
		Sec.	
26		350'	
1850'		350'	

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

MARCH 15, 1983

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

February 24, 1983

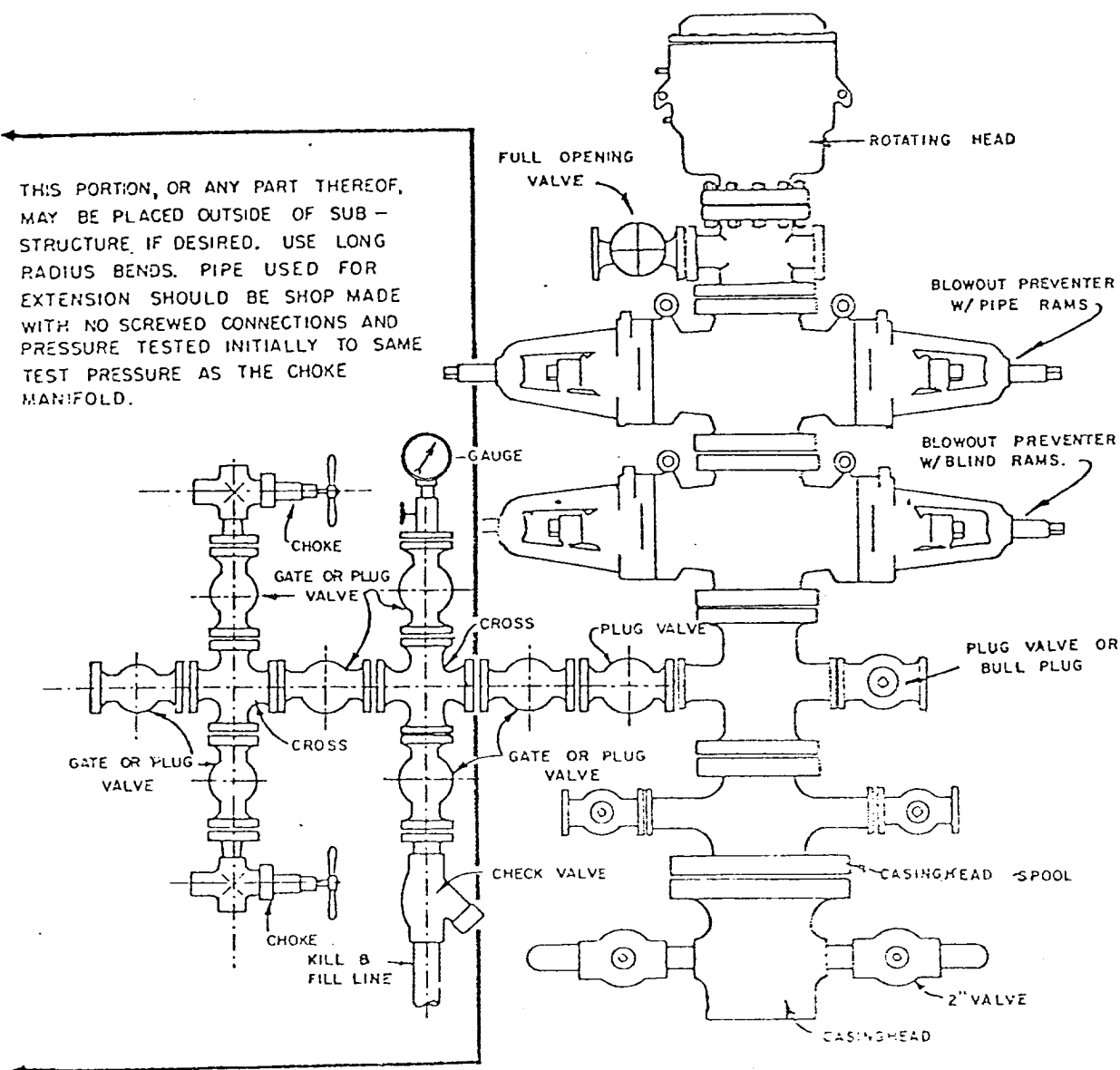
Registered Professional Engineer
and Land Surveyor

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

Certificate No. 3950

3950

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, 1959

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.

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-103
Revised 10-1-78

NO. OF COPIES RECEIVED	
DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

5a. Indicate Type of Lease
State ☐ Fee ☒
5. State Oil & Gas Lease No.

SUNDY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	7. Unit Agreement Name
2. Name of Operator Amoco Production Company	8. Farm or Lease Name Abrams "K"
3. Address of Operator 501 Airport Drive, Farmington, NM 87401	9. Well No. 1
4. Location of Well UNIT LETTER <u>I</u> <u>1850</u> FEET FROM THE <u>south</u> LINE AND <u>350</u> FEET FROM THE <u>east</u> LINE, SECTION <u>26</u> TOWNSHIP <u>29N</u> RANGE <u>10W</u> N.M.P.M.	10. Field and Pool, or Wildcat Armenta Gallup
15. Elevation (Show whether DF, RT, GR, etc.) 5567' KB	12. County San Juan

16.

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMERCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOBS <input type="checkbox"/>	
		OTHER <u>Spud and set casing.</u> <input checked="" type="checkbox"/>	

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Spudded a 14-3/4" hole on 5-7-83 and drilled to 302'. Landed 11-3/4", 42#, H-40 casing at 302' and cemented with 510 cu. ft. Class "B" cement with 2% CaCl₂. Circulated good cement to surface. Pressure tested casing to 500# pressure. Drilled a 7-7/8" hole and reached a TD of 5900' on 5-14-83. Ran 5-1/2", 15.5, K-55 casing and landed it at 5900'. Cemented first stage with 1117 cu. ft. Class "B", 50:50 POZ, 6% gel cement and tailed in with 177 cu. ft. Class "B" neat. Opened DV tool at 3000'. Cemented second stage 1756 cu. ft. Class "B", 65:35 POZ, 6% gel cement and tailed in with 118 cu. ft. Class "B" neat cement. Pressure tested 5-1/2" casing to 3800# pressure. Released rig on 5-15-83.

RECEIVED
MAY 24 1983
OIL CON. DIV.
DIST. 3

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

Original Signed By
D.D. Lawson

SIGNED _____ TITLE Dist. Admin. Supvr.

DATE 5/20/83

Original Signed by FRANK T. CHAVEZ

APPROVED BY _____ TITLE SUPERVISOR DISTRICT # 3

DATE MAY 24 1983

CONDITIONS OF APPROVAL, IF ANY:

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-103
Revised 10-1-78

NO. OF COPIES RECEIVED	
DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

5a. Indicate Type of Lease
State ☐ Fee ☒
5. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS

DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR.
USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.

OIL WELL ☒ GAS WELL ☐ OTHER-

7. Unit Agreement Name

8. Farm or Lease Name

Abrams "K"

9. Well No.

1

10. Field and Pool, or Wildcat

Armenta Gallup

UNIT LETTER I 1850 FEET FROM THE south LINE AND 350 FEET FROM
THE east LINE, SECTION 26 TOWNSHIP 29N RANGE 10W NMPM.

15. Elevation (Show whether DF, RT, GR, etc.)

5567' KB

12. County

San Juan

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐
TEMPORARILY ABANDON ☐
PULL OR ALTER CASING ☐
OTHER ☐

PLUG AND ABANDON ☐
CHANGE PLANS ☐
OTHER ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐
COMMENCE DRILLING OPNS. ☐
CASING TEST AND CEMENT JOBS ☐
OTHER Completion ☐

ALTERING CASING ☐
PLUG AND ABANDONMENT ☐

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Completion rig moved on 5-28-83. Total depth of the well is 5900' and plugback depth is 5858'. Pressure tested 5-1/2" casing to 3800 psig. Perforated intervals 5378'-5492', 5514'-5580', 5590'-5692' with one jet shot per every two feet for a total of 141 holes. Fraced entire Gallup interval with 139,000 gals 20# gelled water containing 2% KCL, 1 gallon of surfactant per 1000 gallons of frac fluid, .5 millicurie of radioactive sand per 1000# of frac sand, and 130,000# of 20-40 mesh sand. Landed 2-7/8" tubing at 5399' and released rig on 5-23-83. Moved in swab unit and swabbed well. Moved in and rigged up service unit again on 6-2-83. Relanded 2-7/8" tubing at 5710'. Tripped in with rods and pump. Set at 5655' and released rig on 6-3-83.

RECEIVED

JUN 28 1983

OIL CON. DIV.
DIST. 3

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

Original Signed By
D.D. Lawson

SIGNED

TITLE Dist. Admin. Supvr.

DATE 6/27/83

Original Signed by FRANK T. CHAVEZ

APPROVED BY

TITLE SUPERVISOR DISTRICT # 3

DATE

CONDITIONS OF APPROVAL, IF ANY: