

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-101
Revised 10-1-70

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OPERATOR	

5A. Indicate Type of Lease
STATE ☐ FCC ☒
5. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		7. Unit Agreement Name Gallegos Canyon Unit	
b. Type of Well OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>		8. Farm or Lease Name	
2. Name of Operator Amoco Production Company		9. Well No. 109E	
3. Address of Operator 501 Airport Drive, Farmington, New Mexico 87401		10. Field and Pool, or Wildcat Basin DK/Wildcat GP	
4. Location of Well UNIT LETTER <u>E</u> LOCATED <u>1675</u> FEET FROM THE <u>north</u> LINE AND <u>850</u> FEET FROM THE <u>West</u> LINE OF SEC. <u>18</u> TWP. <u>29N</u> RGE. <u>12W</u> N14PM		11. County San Juan	
19. Proposed Depth 6190'		19A. Formation Dakota & Gallup	
21. Elevations (Show whether DE, RL, etc.) 5503' GR		22. Approx. Date Work will start As soon as permitted	
21A. Kind & Status Plug. Bond Statewide		21B. Drilling Contractor Unknown	
23. PROPOSED CASING AND CEMENT PROGRAM		20. Rotary or C.T. Rotary	

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12-1/4"	9-5/8"	32.3#, H-40	300'	354 cu. ft.	Class B
8-3/4"	7"	20#, K-55	6190'	1398 cu. ft.	Class B

Amoco proposes to drill the above well to further develop the Basin Dakota and wildcat 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. 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. 56742.

APPROVAL EXPIRES 6-28-85
UNLESS DRILLING IS COMMENCED.
SPUD NOTICE MUST BE SUBMITTED
WITHIN 10 DAYS.

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DEC 31 1984

OIL CON. DIV.
DIST. 3

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTION ZONE AND PROPOSED NEW PRODUCTION 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.

Signed BDS Shaw Title Administrative Supervisor Date 12-28-84

(This space for State Use)

APPROVED BY [Signature] TITLE SUPERVISOR DISTRICT #3

DATE DEC 31 1984

CONDITIONS OF APPROVAL, IF ANY:

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

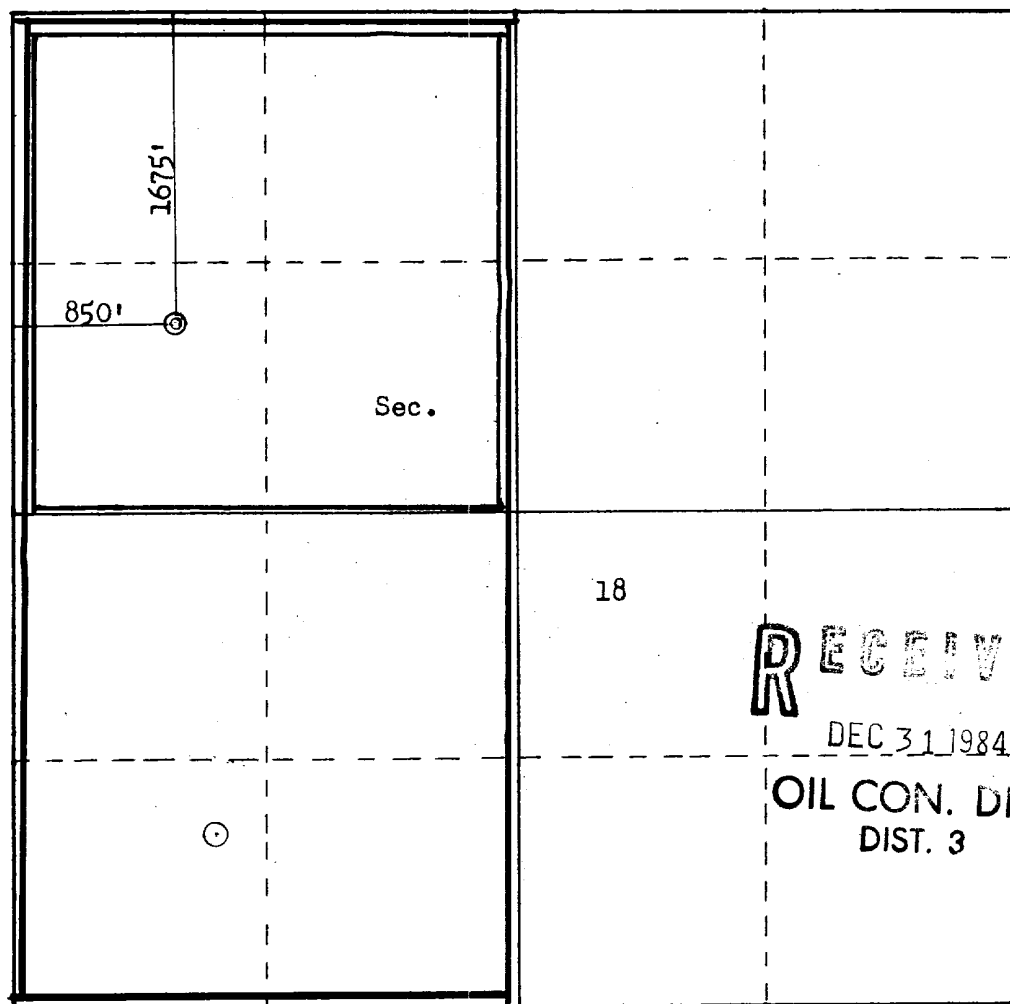
Operator AMOCO PRODUCTION COMPANY		Lease GALLEGOS CANYON UNIT		Well No. 109E
Unit Letter E	Section 18	Township 29N	Range 12W	County San Juan
Actual Footage Location of Well: 1675 feet from the North line and 850 feet from the West line				
Ground Level Elev: 5503	Producing Formation Dakota & Gallup		Pool Basin DK & Wildcat GP	Dedicated Acreage: 320/160 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 Unitized

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.

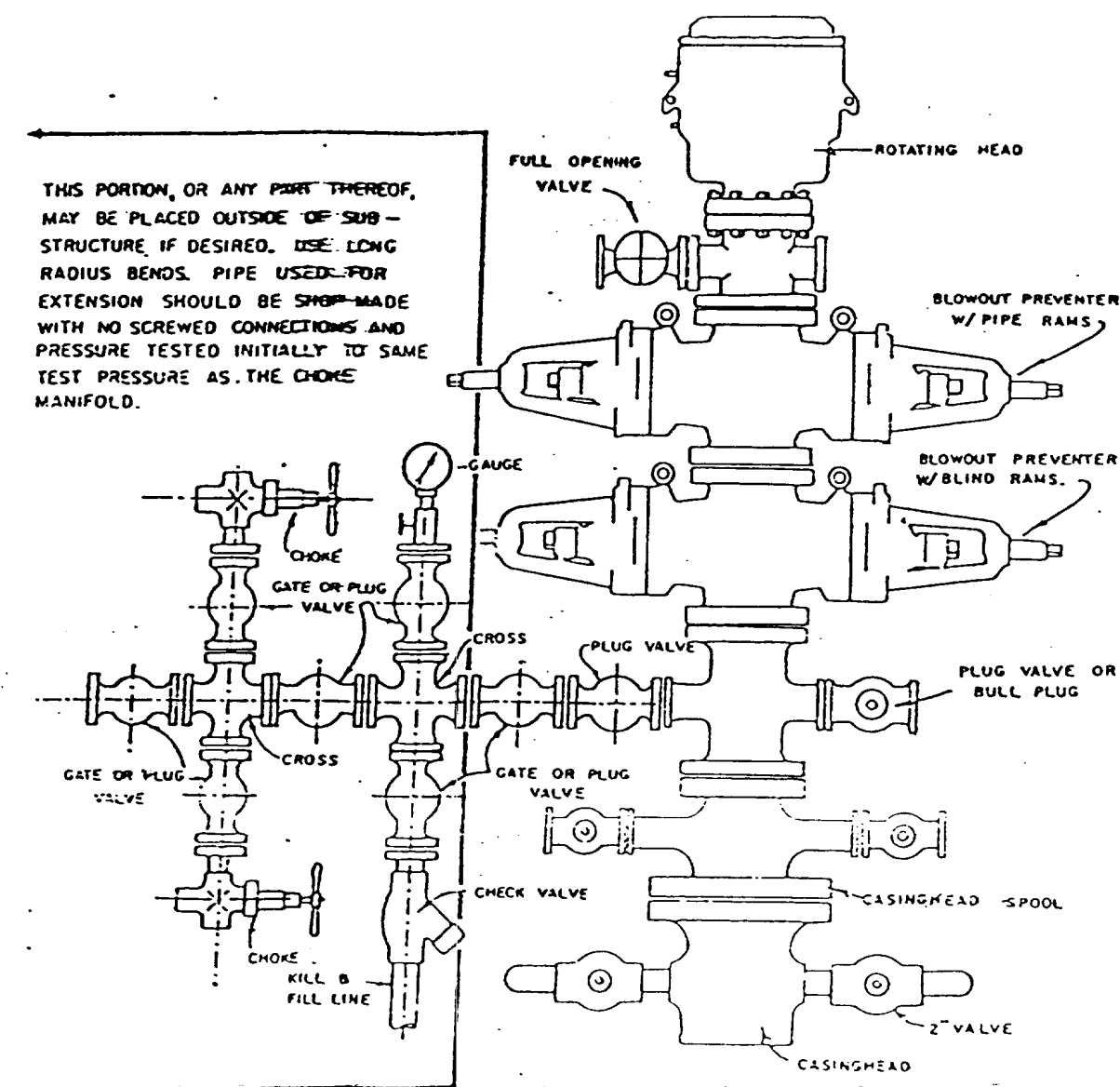
B.D. Shaw

Name
B.D. Shaw
Position
Administrative Supervisor
Company
Amoco Production Company
Date
12-28-84

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
December 11, 1984
Registered Professional Engineer and Land Surveyor
Fred B. Kerr Jr.
Certificate No. 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

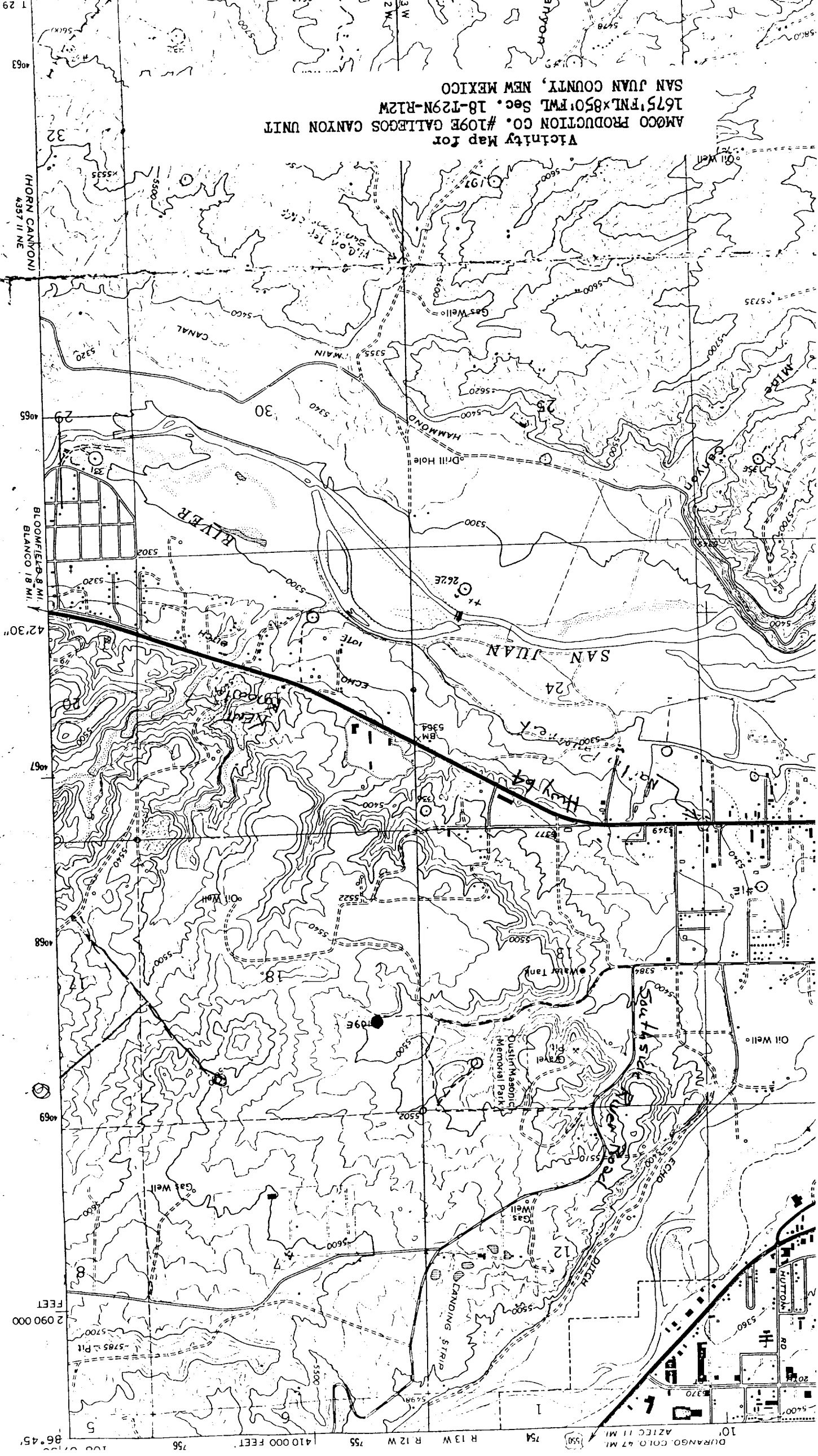
API Series # 900

EXHIBIT D-4

OCTOBER 16, 1955

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.

Vicinity Map for
 AMOCO PRODUCTION CO. #109E GALLEGOS CANYON UNIT
 1675 FNLX850 FNL Sec. 18-T29N-R12W
 SAN JUAN COUNTY, NEW MEXICO



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

Form C-103
Revised 10-1-76

5a. Indicate Type of Lease	
State <input type="checkbox"/>	Fee <input checked="" type="checkbox"/>
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.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>	7. Unit Agreement Name Gallegos Canyon Unit
2. Name of Operator Amoco Production Co.	8. Farm or Lease Name
3. Address of Operator 501 Airport Drive, Farmington, N M 87401	9. Well No. 109E
4. Location of well UNIT LETTER <u>E</u> <u>1675</u> FEET FROM THE <u>North</u> LINE AND <u>850</u> FEET FROM THE <u>West</u> LINE, SECTION <u>18</u> TOWNSHIP <u>29N</u> RANGE <u>12W</u> N.M.P.M.	10. Field and Pool, or Wildcat <u>Basin DK/Wildcat Gallup</u>
15. Elevation (Show whether DF, RT, GR, etc.) <u>5503' GR</u>	12. County <u>San Juan</u>

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"/>	COMMENCE DRILLING OPERATIONS <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input checked="" type="checkbox"/> Extension Request	CASING TEST AND CEMENT JOBS <input type="checkbox"/>	OTHER <input 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.

Amoco Production Company requests approval for an extension of the Permit to Drill the above referenced well.

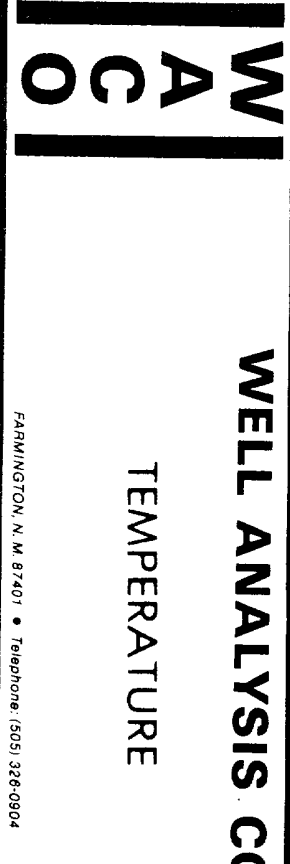
Extended to 12-25-85

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DIST. 3

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

SIGNED <u>BD Shaw</u>	TITLE <u>Adm. Supervisor</u>	DATE <u>5-23-85</u>
Original Signed by FRANK T. CHAVEZ		SUPERVISOR DISTRICT # <u>3</u>
APPROVED BY	TITLE	DATE
CONDITIONS OF APPROVAL, IF ANY:		

MAY 31 1985



WELL ANALYSIS CO.

TEMPERATURE

FARMINGTON, N. M. 87401 • Telephone: (505) 325-0904

FILING NO. _____

COMPANY AMCO PRODUCTION COMPANY

WELL CCH # 109-T

FIELD EASTERN PAROTA

COUNTY SAN JUAN

LOCATION STATE NEW MEXICO

OTHER SERVICES _____

SEC. 18 TWP. 29 N. RGE. 12 W.

DATE 12-7-85

Run No. _____

Type Log TEMPERATURE

Depth Driller _____

Depth Logger _____

Bottom Logged Interval 2000

Top Logged Interval 600

Type fluid in hole WATER

Max rec temp. deg F 110

Operating time _____

Recorded by BRNFR

Witnessed by MC MILLARD

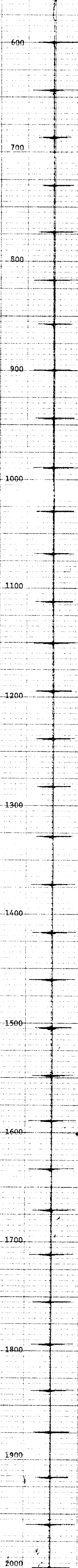
Bore Hole Record

Run No. Bit From To Size Wgt From To

Casing Record

Size Wgt From To Size Wgt From To

7" SUEP F.N.



TEMPERATURE SCALE

CEMENT TOP

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Form C-103
Revised 10-1-78

3a. Indicate Type of Lease
State ☐ Fee ☒
3. 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.

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15. Elevation (Show whether DF, RT, GR, etc.) 5503' GR	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 ☐

PLUG AND ABANDON ☐
CHANGE PLANS ☐

OTHER ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐
COMMENCE DRILLING OPNS. ☐
CASING TEST AND CEMENT JOB ☐
OTHER Spud and Set Casing ☒
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.

Spud a 12 1/4" hole on 11-23-85 at 1630 hours. Drilled to 322'. Set 9 5/8", 36#, K-55 casing at 316' and cemented with 201 cu. ft. Class B Ideal. Circulated cement to surface. Pressure tested casing to 1000 psi for 30 minutes. Drilled an 8 3/4" hole to a TD of 6200'. Set 7", 26#, J-55 casing at 6200'. Stage 1: cemented with 532 cu. ft. Class B 65:35 poz and tailed in with 539 cu. ft. Class B 50:50 poz. Stage 2: cemented with 887 cu. ft. Class B 65:35 poz. Ran a temperature log (attached) which indicated the top of the cement to be at 653'. The DV tool was set at 3073' and the rig was released on 12-7-85.

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DIST. 3

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

SIGNED BS Shaw TITLE Adm. Supervisor DATE 12-19-85

Original Signed by FRANK T. CHAVEZ

SUPERVISOR DISTRICT # 3

DEC 30 1985