

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK DRILL ☒ DEEPEN ☐		5. LEASE DESIGNATION AND SERIAL NO. SF-080179	
1b. TYPE OF WELL OIL WELL ☐ GAS WELL ☒ OTHER ☐		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Phillips Petroleum Company 17654		7. UNIT AGREEMENT NAME San Juan 29-5 Unit	
3. ADDRESS AND TELEPHONE NO. 5525 Highway 64, NBU 3004, Farmington, NM 87401		8. FARM OR LEASE NAME, WELL NO. SJ 29-5 Unit #49A 9256	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface Unit F, 1850' FNL & 1450' FWL At proposed prod. zone Same as above		9. API WELL NO. 30-039-25819	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 30 miles east of Blanco, New Mexico		10. FIELD AND POOL, OR WILDCAT Blanco Mesaverde 72319	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drilg. unit line, if any) 1450'		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 9, T29N, R5W	
16. NO. OF ACRES IN LEASE 640.00 acres		12. COUNTY OR PARISH Rio Arriba,	
17. NO. OF ACRES ASSIGNED TO THIS WELL 320 acres W/2		13. STATE NM	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 6450'		20. ROTARY OR CABLE TOOLS Rotary	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) '6817' (unprepared groundlevel)		22. APPROX. DATE WORK WILL START* 2nd Qtr 1998	

23. PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8"	36#, J/K-55	350'	170 sx C1 B
8-3/4"	7"	20#, J/K-55	4200'	L-400 sx 65/35 POZ; T-150 sx C1 B
6-1/4"	4-1/2"	10.5#, J-55	4000' - 6450'	L-325 sx 50/50 POZ; T-25 sx C1 G *

* Cement for the surface and intermediate casing will be circulated to the surface. The 4-1/2" casing cement is designed to cover openhole section (with 30% excess) and 100' inside the 7" shoe with 10% excess).

See the Drilling Prognosis for details on the cement and mud program.

See attached details on BOP equipment and plans for cathodic protection.

See attached survey for details on the pipeline.

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 Patsy Clouston TITLE Regulatory Assistant DATE 3-11-98

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE MAR 30 1998

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:

[Signature]

/s/ Duane W. Spencer

APPROVED BY _____ TITLE _____ DATE MAR 30 1998

*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,

Aboard.

LOC

Re permitted
different
Api #

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-102
Revised October 18, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies
☐ AMENDED REPORT

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WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ APT Number 30-039-25819	² Pool Code 72319	³ Pool Name Blanco Mesaverde
⁴ Property Code 009256	⁵ Property Name SAN JUAN 29-5 UNIT	⁶ Well Number 49A
⁷ OGRID No. 017654	⁸ Operator Name PHILLIPS PETROLEUM CO.	⁹ Elevation 6817

¹⁰ Surface Location

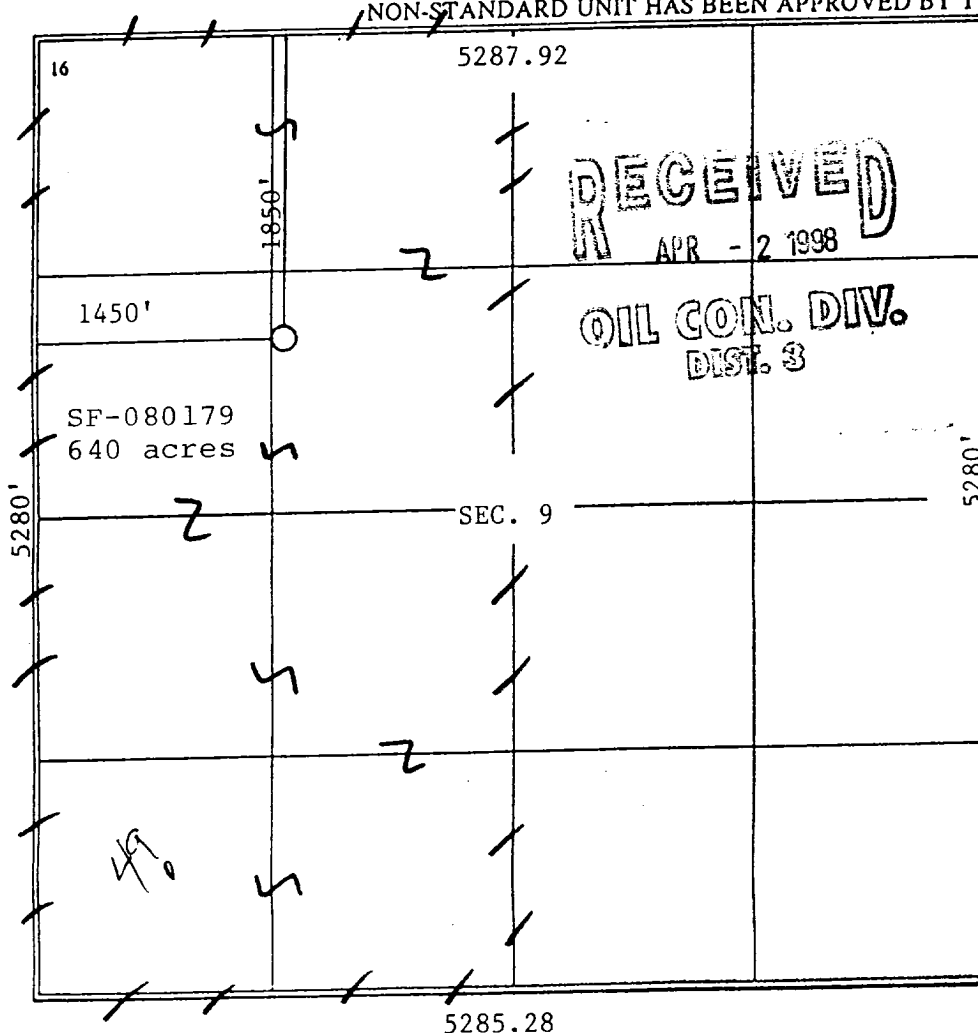
UL or lot no. F	Section 9	Township 29N	Range 5W	Lot Idn	Feet from the 1850	North/South line NORTH	Feet from the 1450	East/West line WEST	County RIO ARriba
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. F	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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¹² Dedicated Acres 320 ac. W	¹³ Joint or Infill 2 I	¹⁴ Consolidation Code U	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

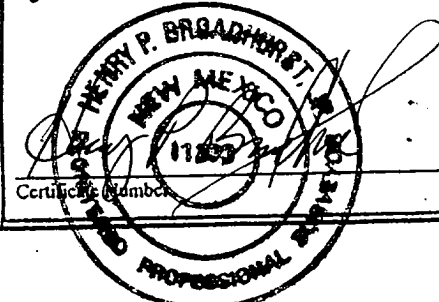


¹⁷ OPERATOR CERTIFICATION
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

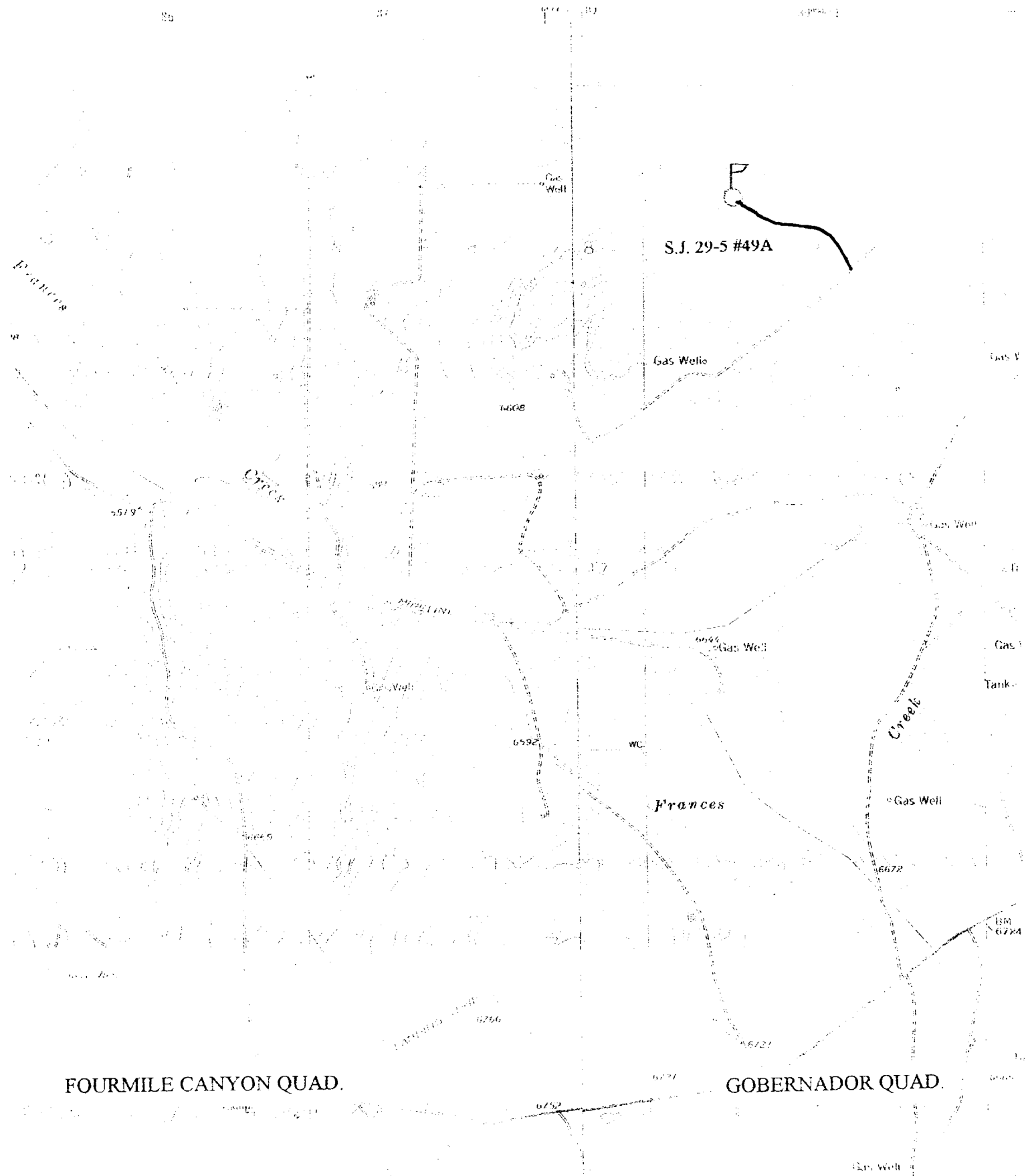
Signature
Richard Allred
Printed Name
Development Superintendent
Title
11-10-97
Date

¹⁸ SURVEYOR CERTIFICATION
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.

Date of Survey
Signature and Seal of Professional Surveyor:



PHILLIPS PETROLEUM CO.
SAN JUAN 29-5 UNIT #49A
SE/4 NW/4 SEC. 9, T. 29 N., R. 5 W., N.M.P.M.,
RIO ARriba COUNTY, NEW MEXICO



8 of 21



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2333

NDM	CAPS
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WELL DELIVERABILITY TEST REPORT FOR 19 87

POOL NAME SOUTH BLANCO	POOL SLOPE n =	FORMATION PICTURED CLIFFS	COUNTY SAN JUAN
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COMPANY MERIDIAN OIL		WELL NAME AND NUMBER RIDDLE F #9	
UNIT LETTER D	SECTION 17	TOWNSHIP 28	RANGE 08
CASING O.D. - INCHES	CASING I.D. - INCHES	TUBING O.D. - INCHES	TUBING I.D. - INCHES
GAS PAY ZONE		WELL PRODUCING THRU	
FROM		TO	
DATE OF FLOW TEST		DATE SHUT-IN PRESSURE MEASURED	
FROM 11-17-87		TO 11-23-87	
FROM 11-17-87		TO 11-29-87	

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWI)	(b) Flowing Tubing Pressure (DWI)	(c) Flowing Meter Pressure (DWI)	(d) Flow Chart Static Reading	(e) Meter Error (Item c - Item d)	(f) Friction Loss (a - c) or (b - c)	(g) Average Meter Pressure (Integr.)	(h) Corrected Meter Pressure (g + e)	(i) Avg. Wellhead Press. $P_w = (h + i)$	(j) Shut-in Casing Pressure (DWI)	(k) Shut-in Tubing Pressure (DWI)	(l) $P_c =$ higher value of (j) or (k)	(m) Del. Pressure $P_d =$ _____ % P_c for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D	Quotient of $\frac{\text{Item c}}{\text{Item d}}$	$\sqrt{\frac{\text{Item d}}{\text{Item c}}}$	Corrected Volume	Q =	MCF/D
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WORKING PRESSURE CALCULATION

$(1 - e^{-R^2})$	$(P_c Q_w)^2 (1000)$	$R^2 = (1 - e^{-R^2}) (P_c Q_w)^2 (1000)$	P_1^2	$P_w^2 = P_1^2 + R^2$	$P_w = \sqrt{P_w^2}$
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n$	$\left(\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right)^n$	$\left(\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right)^n$	$\left(\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right)^n$	$\left(\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right)^n$	MCF/D
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REMARKS:

WELL WAS SHUT-IN 6 DAYS.

SUMMARY

Item b	Pa
P _c	Pa
Q	MCF/D
P _w	Pa
P _d	Pa
D	MCF/D

Company
MERIDIAN OIL
By
SCOTT H. LINDSA
Title
Witnessed By
Company

DEC - 9 1987

DEC 10 1987
OIL CONSERVATION DIVISION
SANTA FE, NEW MEXICO