

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
811 S. 1st Street, Artesia, NM 88210-2834
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

Amended location Form C-101
Revised October 18, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 6 Copies
Fee Lease - 5 Copies

Sundry

☒ AMENDED REPORT

Loc.

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUG BACK, OR ADD A ZONE

¹ Operator name and Address Phillips Petroleum Company 5525 Highway 64, NBU 3004 Farmington, NM 87401		² OGRID Number 017654
⁴ Property Code 009258	⁵ Property Name San Juan 30-5 Unit	³ API Number 30-0 39-26200
		⁶ Well No. 220R

⁷ Surface Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
N	8	30N	5W		1147'	South	2570'	West	Rio Arriba

⁸ Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
N									
⁹ Proposed Pool 1 Basin Fruitland Coal					¹⁰ Proposed Pool 2 71629				

¹¹ Work Type Code N	¹² Well Type Code G	¹³ Cable/Rotary R	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 6273'
¹⁶ Multiple N	¹⁷ Proposed Depth +/- 3023'	¹⁸ Formation Fruitland Coal	¹⁹ Contractor Key Energy	²⁰ Spud Date 1st Qtr 2000

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
12-1/4"	9-5/8"	36#, K/J-55	200' *	93.3sx Type 3	surface
8-3/4"	7"	20#, J/K-55	2908'	L-325 Type 3	
				T-50 sx Type 3	surface
6-1/4"	5-1/2"	15.5# J-55	2888' - TD	**	

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary

PLEASE CANCEL THE APD DATED 7/1/99 FOR THIS WELL. THE SITE HAD TO BE MOVED.

* The surface casing will be set at a minimum of 200', but could be set deeper if required to maintain hole stability. ** The 6-1/4" interval from the 7" casing shoe to the base of the coal may be underreamed to 9-1/2". If the coal is clefted a 5-1/2" 15.5# liner will be run in the open hole without being cemented. If the coal is not clefted, 4-1/2" 11.6# liner will be run & cemented. The well will then be completed by fracture stimulation. If this well proves good, the 30-5 Unit #220 will be converted to a pressure observation well. Also, see attached for cathodic protection details.

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature:

Printed name:

Title:

Sr. Regulatory/Proration Clerk

OIL CONSERVATION DIVISION

Approved by:

Original Signed by FRANK T. CHAVEZ

Title:

SUPERVISOR DISTRICT #3

Approval Date:

JAN - 7 2000

Expiration Date:

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190 Box 1980, Hobbs, NM 88241-1980
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OIL CONSERVATION DIVISION
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Form C-102
Revised October 18, 1994
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State Lease - 4 Copies
Fee Lease - 3 Copies

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-26200		¹ Pool Code 71629		¹ Pool Name Basin Fruitland Coal	
⁴ Property Code 009258		³ Property Name SAN JUAN 30-5 UNIT			⁶ Well Number 220R
⁷ OGRID No. 017654		⁵ Operator Name PHILLIPS PETROLEUM COMPANY			⁸ Elevation 6273'

¹⁰ Surface Location

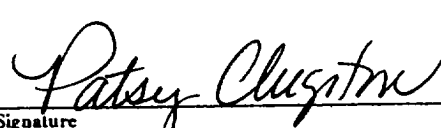
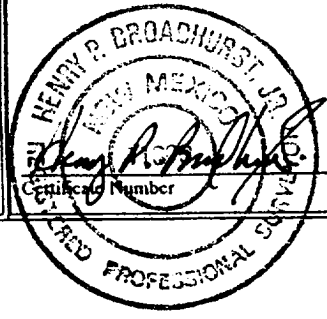
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	8	30N	5W		1147'	SOUTH	2570'	WEST	RIO ARriba

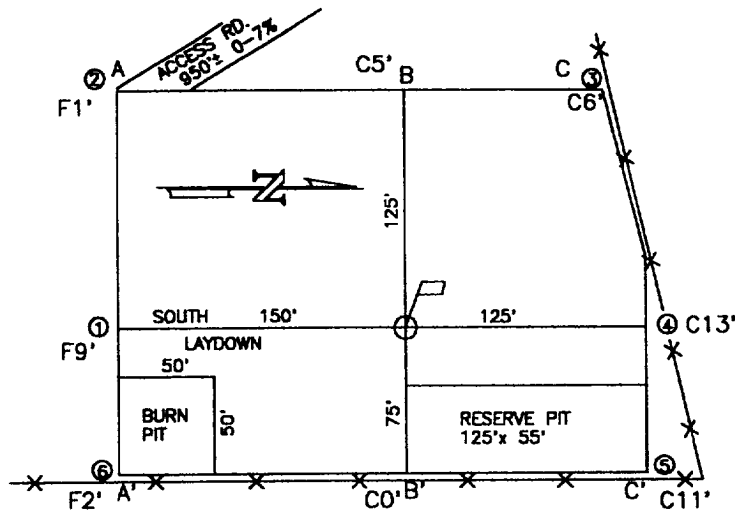
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N									

¹² Dedicated Acres 320 W/2	¹³ Joint or Infill 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

¹⁶ N89°58'E 5279.34' SF-078997 240 acres Section 8 5280.00' N00°01'E 2570' 1147' East 5280.00' FEE		¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief  Signature Patsy Clugston Printed Name Sr. Regulatory/Proration Clerk Title 12-22-99 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. 11/23/99 Date of Survey Signature and Seal of Professional Surveyer: 



A-A' ELEVATION

C/L

6293				
6283				
6273				
6263				
6253				

B-B'

C/L

6293				
6283				
6273				
6263				
6253				

C-C'

C/L

6293				
6283				
6273				
6263				
6253				

COMPANY: PHILLIPS PETROLEUM CO.

LEASE: SAN JUAN 30-5 UNIT No. 220R

FOOTAGE: 1147 FSL 2570 FWL UNIT N

SEC. 8 TWN. 30 N RNG. 5 W N.M.P.M.

COUNTY: RIO ARRIBA STATE: N.M.

ELEVATION: 6273

LATITUDE: 36-49-23

LONGITUDE: 107-22-51



PHILLIPS PETROLEUM CO.
FARMINGTON, NEW MEXICO

SURVEYED: 11/23/99

REV. DATE:

APP. BY

DRAWN BY: K.REA

DATE DRAWN: 11/26/99

FILE NAME: UF014

UNITED
FIELD SERVICES INC.

P.O. BOX 3651
FARMINGTON, NM 87499
OFFICE: (505)334-0408

BM
6561 Jinny

PHILLIPS PETROLEUM COMPANY

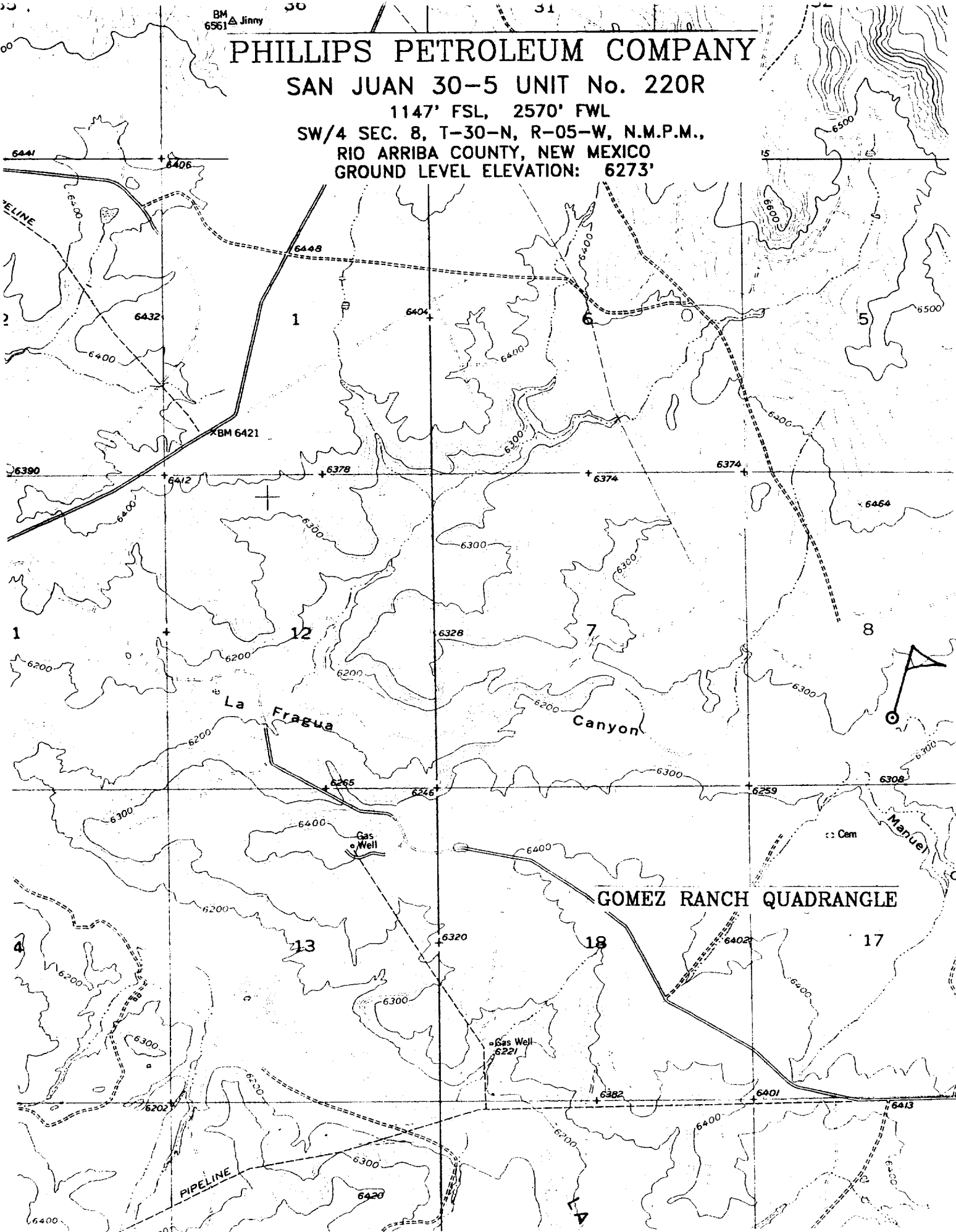
SAN JUAN 30-5 UNIT No. 220R

1147' FSL, 2570' FWL

SW/4 SEC. 8, T-30-N, R-05-W, N.M.P.M.,

RIO ARriba COUNTY, NEW MEXICO

GROUND LEVEL ELEVATION: 6273'



San Juan 30-5 #220R

SURFACE CASING :

Drill Bit Diameter	12.25 "	
Casing Outside Diameter	9.625 "	8.913
Casing Weight	36 ppf	
Casing Grade	K-55	
Shoe Depth	200 '	
Cement Yield	1.41 cuft/sk	
Excess Cement	110 %	

Hole / Casing Annulus Capacity	0.0558 bbl/ft	0.3132
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Cement Required	93.3 sx
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SHOE	200 ',	9.625 ",	36 ppf,	K-55
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INTERMEDIATE CASING :

Drill Bit Diameter	8.75 "	
Casing Outside Diameter	7 "	6.455
Casing Weight	20 ppf	
Casing Grade	K-55	
Shoe Depth	2908 '	
Lead Cement Yield	2.41 cuft/sk	
Lead Cement Excess	100 %	
Tail Cement Length	211.6 '	30
Tail Cement Yield	1.41 cuft/sk	
Tail Cement Excess	100 %	

Casing Capacity	0.0405 bbl/ft	0.2272
Casing / Casing Annulus Capacity	0.0296 bbl/ft	0.1660
Hole / Casing Annulus Capacity	0.0268 bbl/ft	0.1503

Lead Cement Required	325.2 sx
Tail Cement Required	50.0 sx

LINER TOP	2888 '
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SHOE	2908 ',	7 ",	20 ppf,	K-55
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LINER BOTTOM	3023 '
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**San Juan 30-5 Unit #220R
Fee; Unit N, 1147' FSL & 2570' FWL;
Section 8, T30N, R5W; Rio Arriba County, NM**

Cathodic Protection

Phillips proposes to drill a cathodic protection deep well groundbed for the subject well. Will drill a 6-7/8" hole to an anticipated minimum depth of 300' (maximum depth of 500'). Cement plugs will not be used unless more than one water zone is encountered. Prior drilling history for the area indicates only one zone to that depth. If more than one water zone is encountered, notification will be made and details of cement and casing will be provided.

All drilling activity will remain on existing well pad and "Tierra Dynamic Company" of Farmington will be doing the drilling for Phillips.

GEOLOGIC PROGNOSIS

Company: **Phillips Petroleum Company**
 Project: **2000 Fruitland Fm. Coal Program**
 Area: **San Juan 30-5 Unit**

Operator: **Phillips Petroleum Company**
 Well Name: **San Juan 30-5 Unit No. 220R (Kfc)**
 Location: **SESW 08-30N-05W**
 Footage: **1147' FSL & 2570' FWL**
 County/State: **Rio Arriba/New Mexico**

Surveyed GL: **6273** Est. (15') KB: **6288**

<u>Formation</u>	<u>Thickness</u>	<u>Depth</u>	<u>Struct. Elev.</u>
San Jose Fm.	1233	Surface	6273
Nacimiento Fm.	1015	1233	5055
Ojo Alamo Ss.	205	2248	4040
Kirtland Sh.	410	2453	3835
Fruitland Fm.	45	2863	3425
Int. Csg. Depth	15	2908	3380
Top Coal Interval	100	2923	3365
Base Coal Interval	0	3023	3265
Total Depth	5	3023	3265
Pictured Cliffs Ss.	NA	3028	3260

Mud Log: Mud log (5"=100') from intermediate casing to TD
 (Mud Logger to pick intermediate casing point and TD)

Mechanical Logs: None

Correlation Logs: San Juan 30-5 Unit No. 220 (NESW 08-30N-05W)
 San Juan 30-5 Unit No. 26-8 (NWSW 08-30N-05W)

Estimated intervals of water, oil, and gas:

Water:	Ojo Alamo	2248-2453
Oil:	None	NA
Gas:	Fruitland Coal	2923-3023
Gas & Water:	Fruitland Coal	2923-3023

John E. Bircher

December 14, 1999