

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

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

☐ AMENDED REPORT

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 009257	⁵ Property Name San Juan 29-6 Unit	³ API Number 39-26337
		⁶ Well No. 100M

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
C	35	29N	6W		390'	North	2325'	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
C									
⁹ Proposed Pool 1 Blanco Mesaverde 72319					¹⁰ Proposed Pool 2 Basin Dakota 71599				

¹¹ Work Type Code N	¹² Well Type Code M	¹³ Cable/Rotary R	¹⁴ Lease Type Code P ✓	¹⁵ Ground Level Elevation 6358'
¹⁶ Multiple Yes	¹⁷ Proposed Depth 7750'	¹⁸ Formation Dakota	¹⁹ Contractor 4CAT-Key Energy	²⁰ Spud Date 2nd 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#, J/K-55	320'*	158.5 Type III	surface
8-3/4"	7"	20#, J/K-55	3690'	L-337 Type III	
				T-100 Type III	surface
6-1/4"	4-1/2"	11.6#, N-80	7750'	245 Class H	**

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

* The surface casing will be set at a minimum of 320', but could be set deeper if required to maintain hole stability.

** The cement for the 4-1/2" casing is designed to cover the openhole section to 100' above the Cliffhouse Sandstone. Circulation/squeeze cementing will be conducted to isolate the Lewis Shale interval prior to its completion.

See attached for Cathodic Protection details for this well.

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:

Title: SUPERVISOR DISTRICT # 3

Approval Date:

FEB - 2 2000

Expiration Date:

FEB - 2 2000

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
811 South First, Artesia, NM 88220
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

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30039-26337		2. Pool Code 72319		3. Pool Name Blanco Mesaverde			
4. Property Code 009257		5. Property Name SAN JUAN 29-6 UNIT				6. Well Number 100M	
7. OGRID No. 017654		8. Operator Name PHILLIPS PETROLEUM COMPANY				9. Elevation 6358'	

10. Surface Location

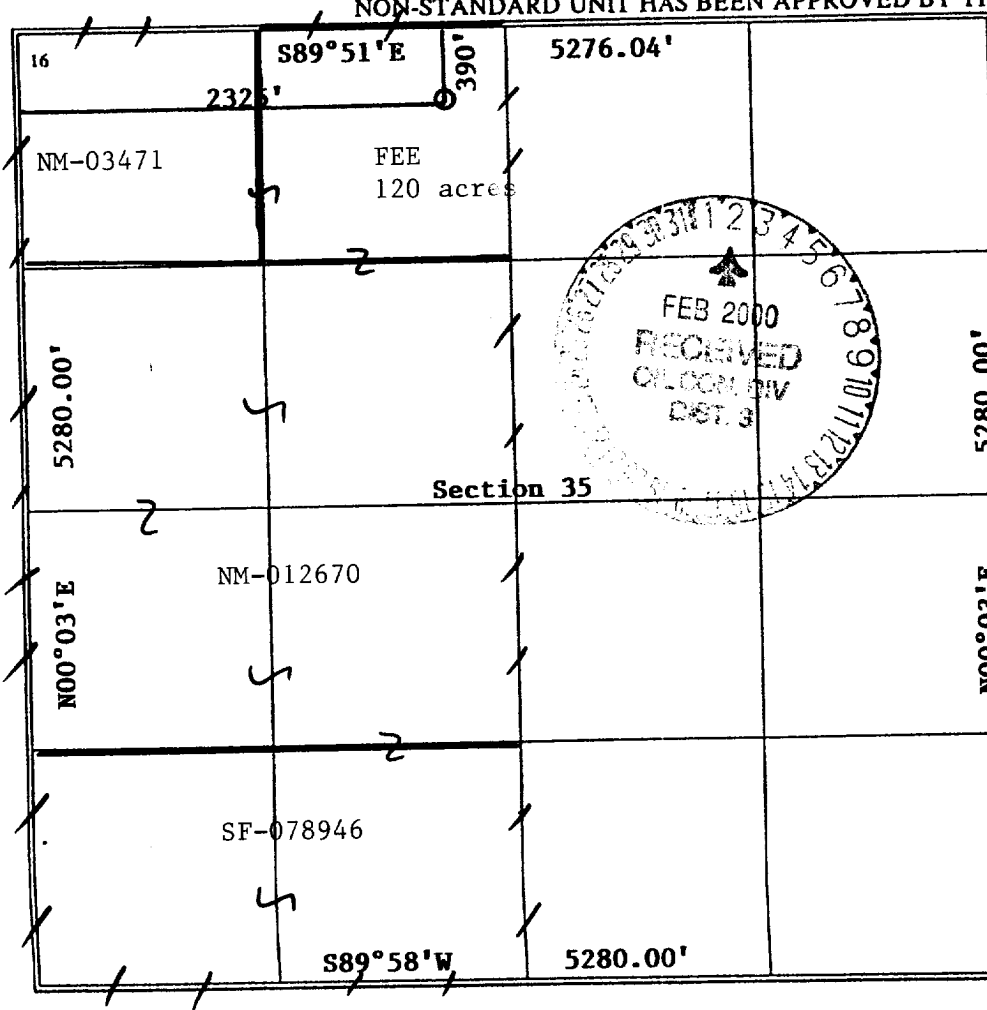
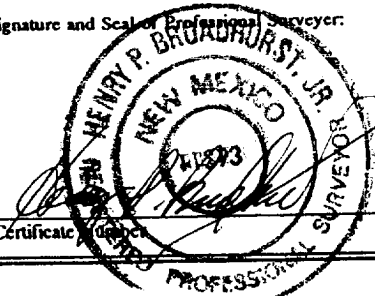
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	35	29N	6W		390'	NORTH	2325'	WEST	RIO ARriba

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
C									

12. Dedicated Acres	13. Joint or Infill	14. Consolidation Code	15. Order No.
320 W/2	I	U	

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: <i>Patsy Clugston</i> Printed Name: Patsy Clugston Title: Sr. Regulatory Clerk Date: January 25, 2000	
		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: 11/17/99 Signature and Seal of Professional Surveyor: 	

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. A.M. Number 30-039-26337		2. Pool Code 71599		3. Pool Name Basin Dakota	
4. Property Code 009257		5. Property Name SAN JUAN 29-6 UNIT			
6. OGRID No. 017654		7. Operator Name PHILLIPS PETROLEUM COMPANY			
				8. Well Number 100M	
				9. Elevation 6358'	

10 Surface Location

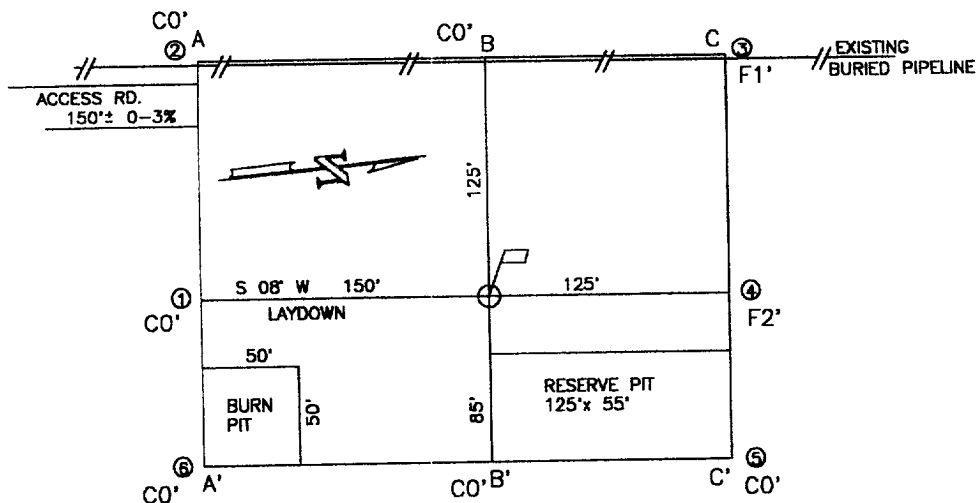
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	35	29N	6W		390'	NORTH	2325'	WEST	RIO ARriba

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
C									
12. Dedicated Acres 320 N/2	13. Joint or Infill I	14. Consolidation Code U	15. Order No.						

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		S89°51'E		5276.04'		17 OPERATOR CERTIFICATION	
2325'		390'		FEE 120 acres		I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief	
NM-03471						Signature Patsy Clugston	
5280.00'		NM-012670				Printed Name Sr. Regulatory Clerk	
N00°03'E		Section 35				Title January 25, 2000	
						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.	
						11/17/99	
						Date of Survey	
						Signature and Seal of Professional Surveyor:	
						Certificate	
						S89°58'W	
						5280.00'	



A-A' ELEVATION C/L

6378				
6368				
6358				
6348				
6338				

B-B' C/L

6378				
6368				
6358				
6348				
6338				

C-C' C/L

6378				
6368				
6358				
6348				
6338				

COMPANY: PHILLIPS PETROLEUM CO.

LEASE: SAN JUAN 29-6 UNIT No. 100M

FOOTAGE: 390 FNL 2325 FWL UNIT C


SEC. 35 TWN. 29 N RNG. 6 W N.M.P.M.

COUNTY: RIO ARRIBA STATE: N.M.

ELEVATION: 6358

LATITUDE: 36-41-18

LONGITUDE: 107-25-59

 PHILLIPS PETROLEUM CO. FARMINGTON, NEW MEXICO		
SURVEYED: 11/17/99	REV. DATE:	APP. BY
DRAWN BY: K.REA	DATE DRAWN: 11/21/99	FILE NAME: UF017
UNITED FIELD SERVICES INC.		P.O. BOX 3651 FARMINGTON, NM 87499 OFFICE: (505)334-0408

PHILLIPS PETROLEUM COMPANY

SAN JUAN 29-6 UNIT No. 100M

390' FNL, 2325' FWL

NW/4 SEC. 35, T-29-N, R-06-W, N.M.P.M.,

RIO ARriba COUNTY, NEW MEXICO

GROUND LEVEL ELEVATION: 6358'

Map features include:

- Contour lines (e.g., 6400, 6500, 6600, 6700)
- Grid lines (T-29-N, R-06-W)
- Geographical features: Gobernador Camp, Ruins, Gas Wells, Spring
- Infrastructure: Pipeline, Road (64)
- Section numbers: 23, 24, 19, 26, 25, 30, 35, 36, 31, 11, 12
- Elevations: 6360, 6381, 6418, 6449, 6470, 6475, 6527, 6542, 6569, 6598, 6616, 6665, 6680, 6682, 6703, 6726, 6783, 6785, 6787, 6790, 6792, 6794, 6796, 6798, 6800, 6802, 6804, 6806, 6808, 6810, 6812, 6814, 6816, 6818, 6820, 6822, 6824, 6826, 6828, 6830, 6832, 6834, 6836, 6838, 6840, 6842, 6844, 6846, 6848, 6850, 6852, 6854, 6856, 6858, 6860, 6862, 6864, 6866, 6868, 6870, 6872, 6874, 6876, 6878, 6880, 6882, 6884, 6886, 6888, 6890, 6892, 6894, 6896, 6898, 6900

PHILLIPS PETROLEUM COMPANY

SAN JUAN 29-6 UNIT No. 100M

390' FNL, 2325' FWL

NW/4 SEC. 35, T-29-N, R-06-W, N.M.P.M.,

RIO ARriba COUNTY, NEW MEXICO

GROUND LEVEL ELEVATION: 6358'

Map details include:

- Section numbers: 11, 12, 19, 23, 24, 25, 26, 30, 31, 35, 36
- Landmarks: Gobernador Camp, Ruins, Gas Wells, Spring
- Infrastructure: Pipeline, Road (64)
- Grid lines: T-29-N, R-06-W
- Elevation: 6358' (Ground Level)

[illegible][illegible][illegible][illegible]

San Juan 29-6 Unit #100M (DK/MV)

SURFACE CASING :

Drill Bit Diameter	12.25 "	
Casing Outside Diameter	9.625 "	8.913
Casing Weight	36 ppf	
Casing Grade	J-55	
Shoe Depth	320 '	
Cement Yield	1.41 cuft/sk	
Excess Cement	110 %	

Hole / Casing Annulus Capacity	0.0558 bbl/f	0.3132 cuft/ft
--------------------------------	--------------	----------------

Cement Required 158.5 sx

SHOE 320 ', 9.625 ", 36 ppf, J-55

INTERMEDIATE CASING :

Drill Bit Diameter	8.75 "	
Casing Outside Diameter	7 "	6.455
Casing Weight	20 ppf	
Casing Grade	J-55	
Shoe Depth	3690 '	
Lead Cement Yield	2.9 cuft/sk	
Lead Cement Excess	110 %	
Tail Cement Length	446.5 '	
Tail Cement Yield	1.41 cuft/sk	
Tail Cement Excess	110 %	

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

Lead Cement Required 336.5 sx

Tail Cement Required 100.0 sx

SHOE 3690 ', 7 ", 20 ppf, J-55

PRODUCTION CASING :

Drill Bit Diameter	6.25 "	
Casing Outside Diameter	4.5 "	4.000
Casing Weight	11.6 ppf	
Casing Grade	N-80	
Top of Cement	4940 '	100' above top of Cliff House
Shoe Depth	7750 '	
Cement Yield	2.13 cuft/sk	
Cement Excess	60 %	

Casing / Casing Annulus Capacity	0.0208 bbl/f	0.1168 cuft/ft
Hole / Casing Annulus Capacity	0.0183 bbl/f	0.1026 cuft/ft
Casing Capacity	0.0155 bbl/f	0.0872 cuft/ft

Cement Required 245.2 sx

SHOE 7750 ', 4.5 ", 11.6 ppf, N-80

GEOLOGIC PROGNOSIS

Company: **Phillips Petroleum Company**
 Project: **2000 Drilling Plan**
 Area: **San Juan 29-6 Unit**

Operator: **Phillips Petroleum Company**
 Well Name: **San Juan 29-6 Unit No. 100M (Kmv/Kd)**
 Location: **NENW 35-29N-06W**
 Footage: **0390' FNL & 2325' FWL**
 County/State: **Rio Arriba/New Mexico**

Surveyed GL: **6358'** Est (12') KB: **6370**

<u>Formation</u>	<u>Thickness</u>	<u>Depth</u>	<u>Struct. Elev.</u>
San Jose Fm.	1425	Surface	6358
Nacimiento Fm.	1075	1425	4945
Ojo Alamo Ss.	135	2500	3870
Kirtland Sh.	335	2635	3735
Fruitland Fm.	295	2970	3400
Pictured Cliffs Ss.	225	3265	3105
Lewis Sh.	200	3490	2880
<u>Int. Csg. Depth</u>	1350	3690	2680
Cliff House Ss.	80	5040	1330
Menefee Fm.	300	5120	1250
Point Lookout Ss.	330	5420	950
Mancos Sh.	910	5750	620
Gallup Ss.	740	6660	-290
Greenhorn Ls.	65	7400	-1030
<u>Graneros Sh.</u>	135	7465	-1095
Dakota Ss.	150	7600	-1230
<u>Total Depth</u>	NA	7750	-1380

Mechanical Logs: Cased hole logs only

Correlation Log: San Juan 29-6 Unit #100 (SWNE 35-29N-06W)

Estimated intervals of water, oil and gas:

Water:	Ojo Alamo Ss.	2500-2635
Gas & Water:	Fruitland Fm.	2970-3265
Gas:	Mesaverde Gp.	5040-5750
	Dakota Ss.	7600-7750

**San Juan 29-6 Unit #100M
FEE; Unit C, 390' FNL & 2325' FWL,
Section 35, T29N, R6W; 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 a Farmington based company will be doing the drilling for Phillips.