

District I
141 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

2001 MAY 24 PM 2:22 ☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-039-26760		2. Pool Code 72319		3. Pool Name Blanco Mesaverde	
4. Property Code 009259		5. Property Name SAN JUAN 31-6 UNIT			6. Well Number 4M
7. OGRID No. 017654		8. Operator Name PHILLIPS PETROLEUM COMPANY			9. Elevation 6444'

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
J	4	30N	6W		1980'	SOUTH	1627'	EAST	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
J									
12. Dedicated Acres 3.1084		13. Joint or Infill Y		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		West		5280.00'	
8	7	6	5		
5276.04'		Section 4		5286.60'	
S00°01'E		SF-079012 2559.84 acres		1627'	
		S89°58'E		5272.08'	

RECEIVED JUN 2001 OIL CON. DIV DIST 3

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: Patsy Clugston
Title: Sr. Regulatory/Proration Clerk
Date: 2-26-01

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: 01/09/01
Signature and Seal of Professional Surveyer: [Signature]
Professional Surveyor Seal: HENRY P. BROADHURST, JR., NEW MEXICO, 11898

☐ AMENDED REPORT

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

WELL LOCATION AND ACREAGE DEDICATION DATA			
1 API Number 30-039-26760	2 Pool Code 71599	3 Pool Name Basin Dakota	
4 Property Code 009259	5 Property Name SAN JUAN 31-6 UNIT		6 Well Number 4M
7 OGRID No. 017654	8 Operator Name PHILLIPS PETROLEUM COMPANY		9 Elevation 6444'

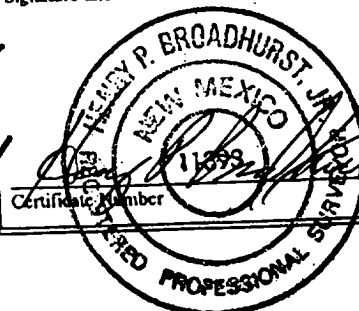
10 Surface Location									
UT. or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	4	30N	6W		1980'	SOUTH	1627'	EAST	RIO ARRIBA

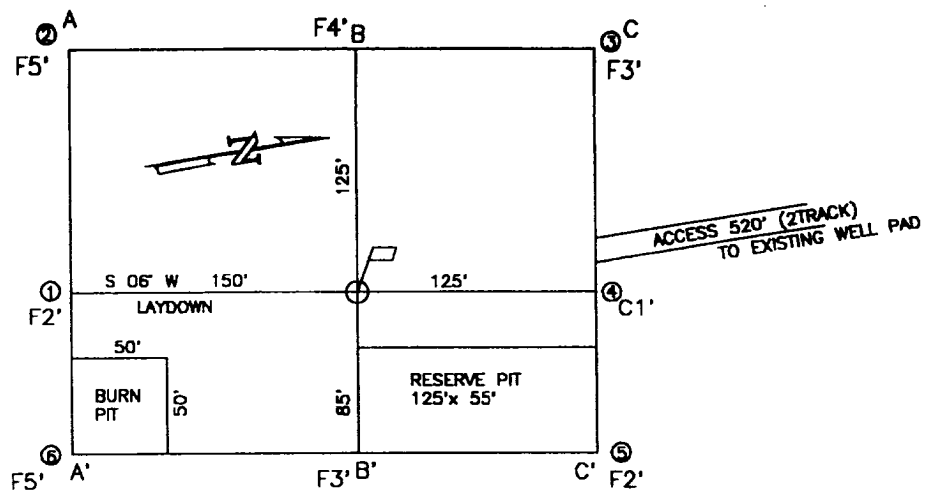
OW		1988	
" Bottom Hole Location If Different From Surface			

" Bottom Hole Location If Different From Surface									
UL or lot no. J	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
" Dedicated Acres 32.0	" Joint or Infill Y	" Consolidation Code U		" Order No.					
14-84 E/2 ALL INTERESTS HAVE BEEN CONSOLIDATED OR									

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

NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION					
16	West	5280.00'			
8	7		6	5	<p>17 OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <div style="margin-top: 20px;"> </div> <p>_____ Signature Patsy Clugston Printed Name Sr. Regulatory/Proration Clerk Title 2-26-01 Date</p>
			2		
5276.04'			5		
		Section 4		2	<p>18 SURVEYOR CERTIFICATION</p> <p>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.</p> <div style="margin-top: 20px;"> 01/09/01 Date of Survey Signature and Seal of Professional Surveyor: <div style="text-align: center;"> _____ Certificate Number </div> </div>

S00°01'E		SF-079012 2559.84 acres		5	
			2		
	S89°58'E	**5272.08'**			




A-A' ELEVATION

C/L

6464				
6454				
6444				
6434				
6424				

B-B'

C/L

6464				
6454				
6444				
6434				
6424				

C-C'

C/L

6464				
6454				
6444				
6434				
6424				

COMPANY: PHILLIPS PETROLEUM CO.

LEASE: SAN JUAN 31-6 UNIT NO. 4M

FOOTAGE: 1980 FSL 1627 FEL UNIT J

SEC. 4 TWN. 30 N RNG. 6 W N.M.P.M.

COUNTY: RIO ARRIBA STATE: N.M.

ELEVATION: 6444

LATITUDE: 36-50-22

LONGITUDE: 107-27-52



PHILLIPS PETROLEUM CO.
FARMINGTON, NEW MEXICO

SURVEYED: 1/9/01

REV. DATE:

APP. BY

DRAWN BY: K.REA

DATE DRAWN: 1/12/01

FILE NAME: UF112

UNITED
FIELD SERVICES INC.

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

PHILLIPS PETROLEUM COMPANY

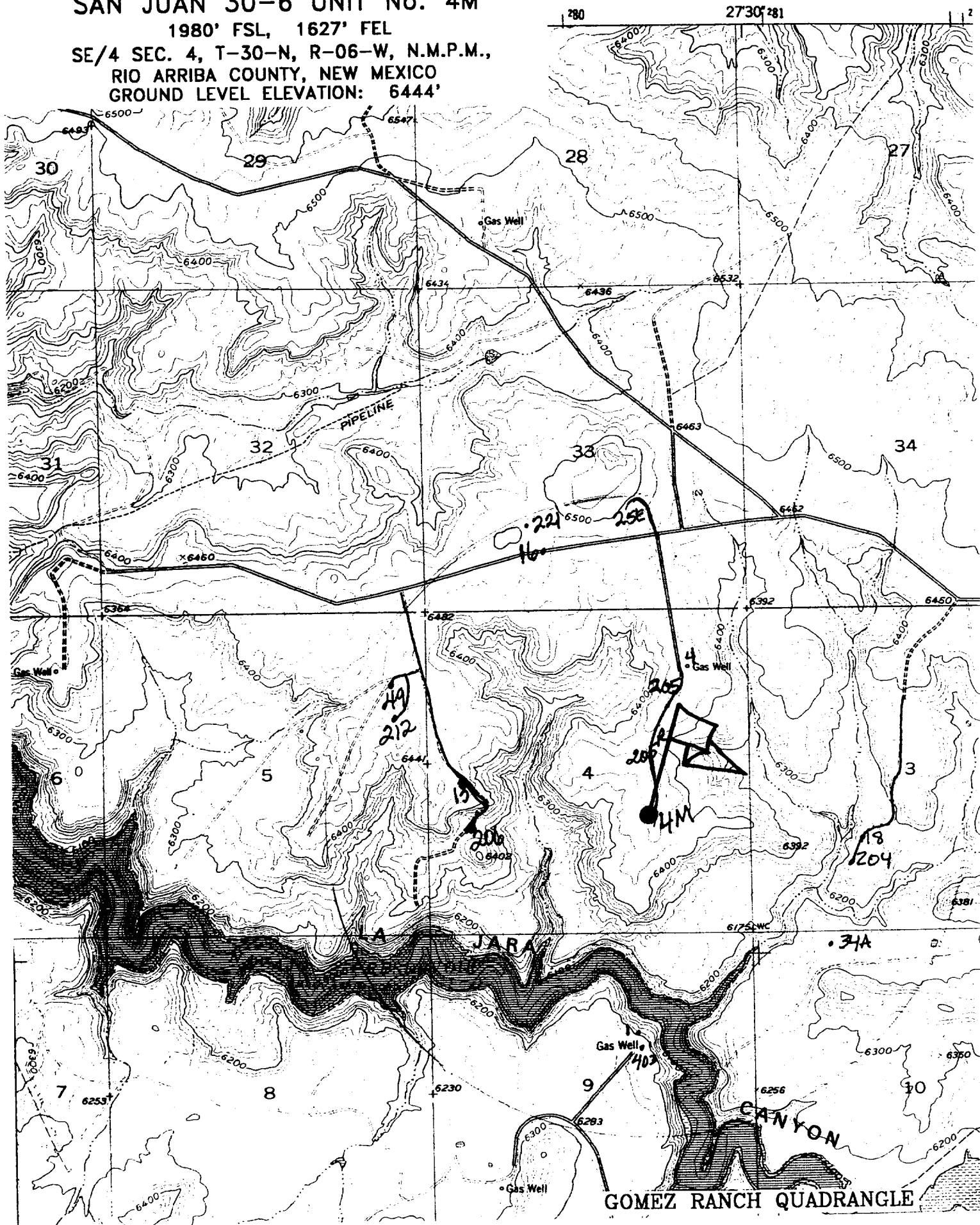
SAN JUAN 30-6 UNIT No. 4M

1980' FSL, 1627' FEL

SE/4 SEC. 4, T-30-N, R-06-W, N.M.P.M.,

RIO ARriba COUNTY, NEW MEXICO

GROUND LEVEL ELEVATION: 6444'



PHILLIPS PETROLEUM COMPANY

WELL NAME: San Juan 31-6 Unit #4M MV/DK

DRILLING PROGNOSIS

1. Location of Proposed Well: Unit J, 1980' FSL & 1627' FEL
Section 4, T30N, R6W

2. Unprepared Ground Elevation: @ 6444' (unprepared)

3. The geological name of the surface formation is San Jose.

4. Type of drilling tools will be rotary.

5. Proposed drilling depth is 7996'.

6. The estimated tops of important geologic markers are as follows:

<u>Nacimiento - 1406'</u>	<u>Menefee Fm. - 5356'</u>
<u>Ojo Alamo - 2456'</u>	<u>Pt. Lookout - 5616'</u>
<u>Kirtland Sh - 2579'</u>	<u>Mancos Sh - 5941'</u>
<u>Fruitland Fm. - 2945'</u>	<u>Gallup Ss. - 6856'</u>
<u>Pictured Cliffs - 3279'</u>	<u>Greenhorn Ls. - 7666'</u>
<u>Lewis Shale - 3492'</u>	<u>Graneros Sh. - 7731'</u>
<u>Cliff House Ss - 5276'</u>	<u>Dakota Ss - 7846'</u>

7. The estimated depths at which anticipated water, oil, gas or other mineral bearing formations are expected to be encountered are as follows:

Water:	<u>Ojo Alamo - 2456' - 2579'</u>
Gas & Water:	<u>Fruitland - 2945' - 3279'</u>
Gas:	<u>Mesaverde - 5276' - 5941'</u>
	<u>Dakota - 7846' - 7996' —</u>

8. The proposed casing program is as follows:

Surface String: 9-5/8", 32.3#, H-40 @ 320'
Intermediate String: 7", 20#, J/K-55 @ 3617'
Production String: 4-1/2", 11.6#, I or N-80 @ 7996' (TD)

9. Cement Program:

Surface String: 158.5 sx Type III cement with 2% bwoc CaCl₂ + 1/4#/sx Cello-flake mixed at 14.5 ppg with a 1.41 ft³/sx yield w/46.5% H₂O or sufficient to circulate to surface - 223 cf.

Note: Cement slurry calculations based on cement to surface with 140% excess hole volume.

Intermediate String: **Lead Cement:** 433.0 sx Type III cement (35:65) POZ with 5#/sx Gilsonite, 1/4#/sx Cello-flake, 6% bwoc gel (bentonite), 10#/sx CSE, 3% bwoc KCL, 0.4% bwoc FL-25 mixed and 0.02#/sx Static Free mixed at 12.0 ppg with a yield of 2.37 ft³/sx – 1026 cf.

Tail Cement: 50 sx – Type III cement with 1/4#/sx Cello-flake and 1% CaCl₂ mixed at 14.5 ppg with a 1.40 ft³/sx yield (70 cf).

In the event we encounter fluid loss during drilling operations, a contingency plan for cementing the intermediate casing may require a stage collar. Phillips cannot predict exact volumes. However the 1st stage will be CI H cement w/5#/sx Gilsonite, 0.25#/sx Cello-flake, 0.3% FL-25 & 2% CaCl₂ mixed at 15.2 ppg 1.28 yield. Stage 2 - lead slurry: 65 % Class H & 35% POZ w/6% Bentonite mixed at 12.6 ppg 1.79 cf/sx Tail Slurry - Class H w/2% CaCl₂ mixed at 15.6 ppg 1.20 yield. All attempt to be circulated to surface.

Production String

Lead: 343.8 sx Type III (35/65 POZ (Fly Ash) with 6% bwoc Bentonite, 10#/sx CSE, 0.2#/sx Static Free, 1% bwoc FL-52, 0.3% bwoc CD-32, 0.3% bwoc R-3 & 0.25#/sx Cello-Flake mixed at 12.3 ppg with a yield of 2.13 ft³/sx – 732cf.

Note: The Production String casing cement is designed to cover openhole section (with 40% excess) and 100' inside the 7" shoe.

Note: Phillips Petroleum continually works to improve the cement slurries on our wells. BJ Services is currently trying to improve what we are using now and before we would use a new cement program it would have to have stronger properties than we are currently using.

Centralizer Program:

Surface: Total four (4) 1 @ 10' above shoe & top of 2nd, 4th & 6th joint

Intermediate: Total seven (7) – 10' above shoe, top of 1st, 2nd, 4th, 6th, & 8th jts & 1 jt. Above surface casing.

Production: None planned.

Turbulators: Total Three (3) – on intermediate casing at 1st jt. Below the Ojo Alamo and next 2 jts up.

10. The minimum specifications for pressure control equipment which are to be used, a schematic diagram thereof showing sizes, pressure ratings (or) API series and the testing procedure and testing frequency are enclosed within the APD packet.

BOP AND RELATED EQUIPMENT CHECK LIST

3M SYSTEM:

2 hydr. rams (pipe & blind) or hydr. ram and annular with blind ram on bottom

Kill Line (2-inch minimum)

1 kill line valve (2-inch minimum)

1 choke line valve

2 chokes (refer to diagram in attachment 1) on choke manifold

Upper kelly cock valve in open position with handle available

Safety valve (in open position) and subs to fit all drill strings in use (with handle available)

Pressure gauged on choke manifold

2 inch minimum choke line

Fill-up line above the uppermost preventer

The BOPs will be pressure tested according to Onshore Order #2 III, A 1 and 30% safety factor.