Form 3160-3 (August 1999)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB NO. 1004-0136 Expires: November 30, 2000

APPLICATION FOR PERMIT TO DRILL OR REENTER						5. Lease Serial No. NMNM84809			
a. Type of Work	ork X DRILL REENTER			R	6		6. If Indian, Allotee or Tribe Name		
Type of Well Oil Well A Gas Well Other X Single Zone Multiple Zone					ne 7	7. Unit or CA Agreement Name and No. NMNM78424B			
. Name of Operato						8	8. Lease Name and Well No.		
Phillips Petr	<u>oleum Compan</u>	у		13h Phone	No. (include area co	ode)	SJ 32-8 U	nit #2	264
a Address 5525 Highway	64, NBU 3004	, Farmingto	on, NM 87401	50)5-599-3454	9	API Well No.	45.	30985
Location of Well At surface	• •	-	ordance with any Sta 'FWL; Lat-36		-107.6847	>. L	Basin Fru	itland	
				APR 2002		Section 9	, T32N	N, R8W	
4. Distance in miles	and direction from	nearest town or p	ost office*			12	2. County or Pari	sh I	3. State
		20.5 miles	s N NE of Blar	nco, NM			<u>an Juan, </u>		NM
5. Distance from pr location to neares	st	650		16. No. of Acre	s in lease	17.Spac	ing Unit dedicat みよいを生。		s well
	property or lease line, ft. 663' (Also to nearest drg. unit line, if any)			582.	84 acres	383:04 whole Section		ection	
8. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.			19. Proposed D	epth	20.BLN	BLM/BIA Bond No. on file			
			3451'			ES0048			
1. Elevations (Show	whether DF, KDB,	RT, GL, etc.		22.Approximate date work will start*		art*	23. Estimated duration		
	6726' GL			May 15, 2002			30 days		
This action is su procedural review and appeal pure the following, comp	a pursuant to 4	62 CLH 2100	ments of Onshore O	4. Attachments			ERATIONS AU COMPLIANCE COMPLIANCE	M. H	ATTACHED
2. A Drilling Plan 3. A Surface Use P	ed by a registered so lan (if the location iled with the approp	is on National Fo		Item 5. Oper 6. Such	to cover the opera 20 above). ator certification. other site specific orized officer.		·	_	•
25. Signuature)	Du		Name (Printed/Ty			I	Date	1/3/100
Title Sn Pag	ulatory/Prora	ation Clerk	7/20	Paus	y Clugston				101102
Sr. Regulatory/Proration Clerk Approved by (Signaure) /s/ David J. Mankiewicz			Name (Printed/Typed)			Date 4/1/02			
Title	AFM				Fo				
		or portify that th	a applicant holds les	- 1	le to those rights in	the subje	ct lease which v	vould er	title the applicant

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

2040 South Pacheco, Santa Fe, NM 87505

⁴ Property Code

009261 'OGRID No.

017654

District IV

State .. New Mexico Energy, Minerala & Natural Resources Department

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

Form C-107 Revised October 18, 1997 Instructions on back

Submit to Appropriate District Office State Lease - 4 Copies

AMENDED REPORT

Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

Pool Code
7 Pool Code
7 1629

Basin Fruitland Coal

Property Name
SAN JUAN 32-8 UNIT

Operator Name
PHILLIPS PETROLEUM COMPANY

Well Number
264

Elevation
6726

UL or lot no. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County 9 32N 8W 2469 SOUTH L 663 WEST SAN JUAN 11 Bottom Hole Location If Different From Surface Lot Idn Feet from the North/South line UL or lot no. Range Feet from the Section Township East/West line County

10 Surface Location

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

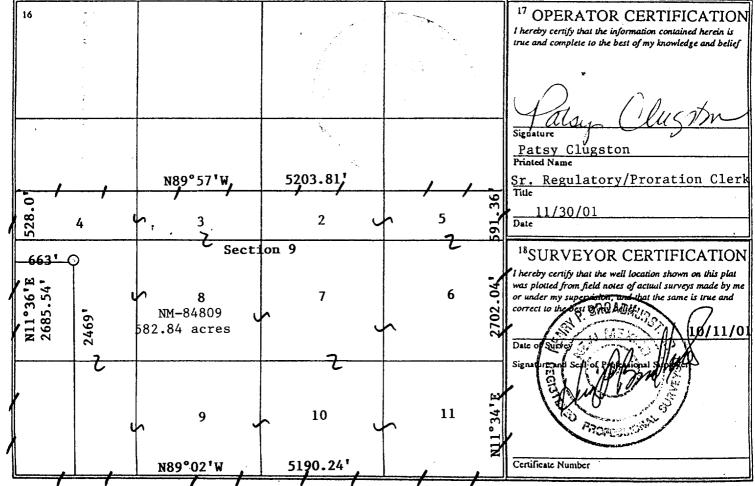
12 Dedicated Acres 13 Joint or Infill 14 Consolidation Code 15 Order No.

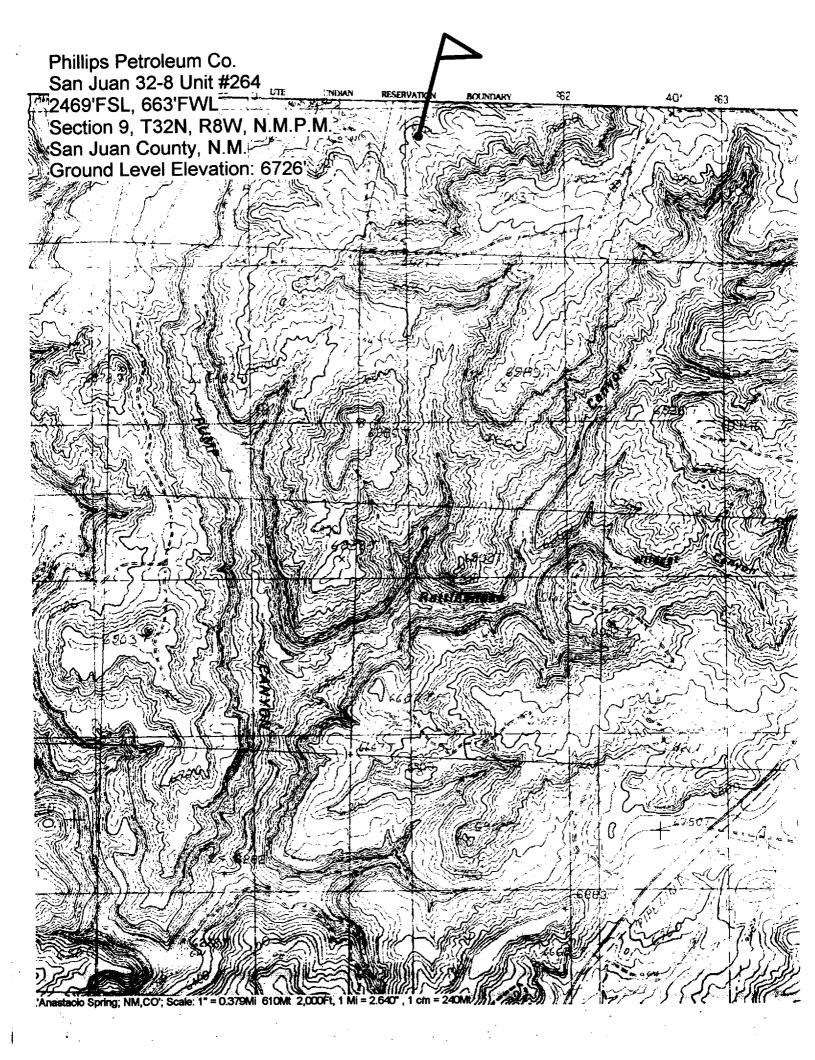
382.8444

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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





PHILLIPS PETROLEUM COMPANY

WELL	NAME:	San Juan 32-8 Unit #264
DDIII	LING PROGNOSIS	
DKILI	TIAC LYOQUOSIS	
1.	Location of Propose	d Well: Unit L, 2469' FSL & 663' FWL
••	200miles	Section 9, T32N, R8W
2.	Unprepared Ground	Elevation: <u>@ 6726'</u> .
3.	The geological name	e of the surface formation is <u>San Jose</u> .
4.	Type of drilling tool	s will be <u>rotary</u> .
5.	Proposed drilling de	pth is3451'
		Clarity of the same of Callegran
6.	-	of important geologic markers are as follows:
		91' 96' Para of Cool 2411'
		96' Base of Coal - 3411' 66' Picture Cliffs - 3621'
		71' <u>Interm. Casing - 3306'</u> 26' T. D 3451'
	Top of Coal - 33	<u>T. D 3451'</u>
7.		ths at which anticipated water, oil, gas or other mineral bearing cted to be encountered are as follows:
	Torritations are only	
	Water:	Ojo Alamo - 2196' – 2266'
	Oil:	none
	Gas:	Fruitland Coal - 3326' - 3411'
	Gas & Water:	Fruitland Coal - 3326' - 3411'
8.	The proposed casing	g program is as follows:
		5/8", 32.3#, H-40 @ 200' *
	Intermediate String	7", 20#, J/K-55 @ 3306'
	Production Liner: _	5-1/2", 15.5# J/K-55 @ 3286' - 3451' (see details below)
		sing will be set at a minimum of 200', but could be set deeper if
	required to maintain	hole stablity.
	_	
9.	Cement Program:	100 5
	Surface String:	102.7 sx Type III cement. Cement to surface w/110% excess of
		s volume w/Type III cement + 2% bwoc Calcium Chloride + 0.25#/sx
	Cello-flake + 60.6%	6 Fresh water (14.5 ppg). (1.41 cf/sx yield = 145 cf)

Cement program: (continued from Page 1) 9.

Intermediate String: Lead Cement: 377.8 sx Type III cement. Cement to surface -110% excess casing/hole annular volume w/ Type III cement + 0.25#/sx Cello-flake + 5#/sx Gilsonite + 6% bwoc Bentonite + 10#/sx CSE + 3% bwow KCL + 0.4% bwoc FL-25 mixed + 0.02#/sx static free mixed at 12.0 ppg. (2.52 cf/sx yield = 952 cf)

> Tail: 50 sx Type III cement + 0.25#/sx Cello-flake + 1% Calcium Chloride mixed at 14.5 ppg. (1.40 cf/sx yield = 70 cf)

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

Centralizer Program:

Surface:

Total four (4) - 10' above shoe and top of 2nd, 3rd, & 4th its.

Intermediate: Total seven (7) - 10' above shoe and top of 1st, 2nd, 4th, 6th, 8th, &

1st it. into shoe.

Turbulators: Total three (3) - one at 1st jt below Ojo Alamo and next 2 jts up.

Liner:

- If the coal is cleated a 5 ½" 15.5# liner will be run in the open hole without being cemented.
- If the coal is not cleated, a 4-1/2" 11.6# liner will be run & cemented. The well will then be completed by fracture stimulation.
- The minimum specifications for pressure control equipment which are to be used, a 10. schematic diagram thereof showing sizes, pressure ratings (or) API series and the testing procedure and testing frequency are enclosed within the APD packet.
- **Drilling Mud Prognosis:** 11.

Surface - spud mud on surface casing.

Intermediate - fresh water w/polymer sweeps. Bentonite as

required for viscosity.

Below Intermediate - air drilled.

The testing, logging, and coring programs are as follows: 12.

D.S.T.s or cores:

Logs: Mud logs only

San Juan 32-8 #264 (CS)

SURFACE CASING:

Drill	Bit Dia	meter	12.25 "
	_		0.000

8.989 Casing Outside Diameter 9.625 32.3 ppf Casing Weight

H-40 Casing Grade 200 ' Shoe Depth

30' Cement Yield 1.41 cuft/sk

110 % **Excess Cement**

0.0785 bbl/ft 0.4407 cuft/ft Casing Capacity 0.0558 bbl/ft 0.3132 cuft/ft Hole / Casing Annulus Capacity

102.7 sx **Cement Required**

H-40 SHOE 200 ', 9.625 ", 32.3 ppf,

INTERMEDIATE CASING:

8.75 " **Drill Bit Diameter** 7 " 6.455 Casing Outside Diameter 20 ppf Casing Weight K-55 Casing Grade Shoe Depth 3306 ' 2.52 cuft/sk Lead Cement Yield **Lead Cement Excess** 110 % 30 '

200 ' Tail Cement Length 1.4 cuft/sk Tail Cement Yield 110 % **Tail Cement Excess**

0.0405 bbl/ft 0.2272 cuft/ft Casing Capacity 0.0309 bbl/ft 0.1734 cuft/ft Casing / Casing Annulus Capacity 0.1503 cuft/ft 0.0268 bbl/ft Hole / Casing Annulus Capacity

377.8 sx **Lead Cement Required** 50.0 sx **Tail Cement Required**

LINER TOP 3286 '

K-55 SHOE 3306 ', 20 ppf,

LINER BOTTOM

BOP AND RELATED EQUIPMENT CHECK LIST

2M 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.

drilling\BOPck.lst