



Key Energy Services, Inc.

Four Corners Division
P.O. Box 900
5651 US Highway 64
Farmington, NM 87499

Phone: 505-327-4935
Fax: 505-327-4962

DATE: 6/1/00

RIG #53

PHILLIPS PETROLEUM COMPANY
5525 HWY 64 NBU 3004
FARMINGTON, N.M. 87401



30-039-26381

ATTN: PATSY CLUGSTON

THIS LETTER IS TO CERTIFY THAT KEY ENERGY SERVICES DID RUN DEVIATION SURVEYS
AT THE LISTED DEPTH ON YOUR SAN JUAN 30-5 UNIT #51M WELL, IN SECTION 21, T-30-N,
R-5-W, IN RIO ARRIBA COUNTY, NEW MEXICO.

DEPTH	DEGREE DEVIATION	DEPTH	DEGREE DEVIATION
320	3/4	4186	3/4
802	1-1/4	4645	3/4
1278	3/4	5147	1-1/2
1769	3/4	5644	1-1/4
2289	1	6143	1-1/4
2825	3/4	6641	1-1/2
3321	1/2	7136	1-1/2
3695	1/2	7898	1-1/4

TO THE BEST OF MY KNOWLEDGE, I SWEAR THIS INFORMATION TO BE TRUE.

SINCERELY,

JOHN K. RICHARDSON
DRILLING CONTRACT MANAGER

Notary Public

My commission expires:

6/21/02
DATA,PHILSURV

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires: November 30, 2000

WELL COMPLETION OR RECOMPLETION REPORT

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other _____
b. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Drift Resvr.,
Other _____

2. Name of Operator
Phillips Petroleum Company

3. Address
5525 Highway 64, NBU 3004, Farmington, NM 87401

3a. Phone No. (include area code)
505-599-3454

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface Unit I, 1729' FSL & 1040' FEL

At top prod. interval reported below same as above

At total depth same as above

14. Date Spudded

5/11/00

15. Date T.D. Reached

5/22/00

16. Date Completed

☐ D & A ☒ Ready to Prod.

6/16/00

17. Elevations (DF, RKB, RT, GL)*

6421' GL

18. Total Depth: MD

7898'

19. Plug Back T.D.: MD

7878'

20. Depth Bridge Plug Set: MD none

TVD 7898'

TVD 7878'

TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

GR/CCL/CBL

22. Was well cored? ☒ No ☐ Yes (Submit analysis)

Was DST run ☒ No ☐ Yes (Submit report)

Directional Survey? ☒ No ☐ Yes (Submit

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12-1/4"	9-5/8"	36#, J55	0	323	0	205	51.46	0	5 bbls
8-3/4"	7"	20#, J55	0	3731	0	465 5/5	82.81	168'	0
6-1/4"	4-1/2"	11.6180	0	7898	5240	245	91.71		
						100	24.93	5190'	0

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-3/8"	7815	0						

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Dakota	6753'	7898'	7740' - 7854	36"	42	
B)						
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
7740' - 7854'	750 gal 10% Acetic Acid
7740' - 7854'	59,220 gal 60 Quality 35# X-link Viking foam, 4500# 100 mesh sand, 100,000 #
	20/40 LTC sand, total N2 - 873,580 scf

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity	Gas Gravity	Production Method
SI	6/16/00	1	→		31.29	1.25			flowing - pitot
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr.	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	
1/2"		120	→		751	3		SI waiting to first deliver	

28a. Production-Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr.	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	
			→						

ACCEPTED FOR RECORD

JUN 23 2000

FARMINGTON FIELD OFFICE
BY _____

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr.	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	

28c. Production-Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr.	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

SI waiting to first deliver

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
Nacimiento	1338			Tops are estimated by no openhole logs run	John Bircher
Ojo Alamo	2503	2698	Sandstone		
Kirtland	2698	3018	Shale & sandstone		
Fruitland	3018	3188	Shale, coal and sandstone		
Pictured Clf	3188	3558	Marine Sands		
Lewis	3558	5293	Sandstone/shale		
Cliffhouse	5293	5368	Sandstone/shale		
Menefee	5368	5543	Sandstone/shale		
Pt. Lookout	5543	5868	Sandstone/shale		
Mancos	5868	6853	Shale		
Gallup	6853	7573	Sandstone/shale		
Greenhorn Ls	7573	7618	Limestone/shale		
Graneros	7618	7748	Sandstone/shale		
Dakota	7748	7898	Sandstone/shale		

32. Additional remarks (include plugging procedure):

Plans are to flow test the Dakota interval, then come back and add the MV production, flowing testing it. We will then commingle production per DHC Order R11187 only after the individual commingling paperwork has been filed and approved.

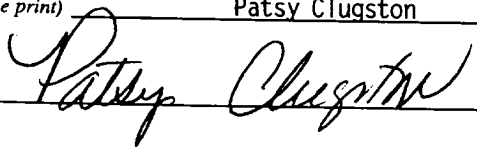
33. Circle enclosed attachments:

1. Electrical/Mechanical Logs (1 full set req'd) 2. Geologic Report 3. DST Report 4. Directional Survey
5. Sundry Notice for plugging and cement verification 6. Core Analysis 7. Other

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) Patsy ClugstonTitle Sr. Regulatory/Proration Clerk

Signature

Date 6/20/00

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

9-3346170 P.02

District II
 510 South West, Artesia, NM 87210
 District III
 1900 Nio Bruno Rd., Aztec, NM 87410
 District IV
 2140 South Pacheco, Santa Fe, NM 87505

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, NM 87505

Submit to Appropriate District Office
State House - 4 Copy
Fox House - 3 Copy

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

' API Number 36-639-26381		' Pool Code 71599	' Pool Name Basin Dakota
' Property Code 009258	' Property Name SAN JUAN 30-5 UNIT		' Well Number 51M
' OGRID No. 017654	' Operator Name PHILLIPS PETROLEUM COMPANY		' Elevation 6421'

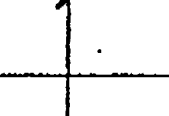
10 Surface Location

U. or Int. no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	21	30N	5W		1729'	SOUTH	1040'	EAST	RIO ARriba

11 Bottom Hole Location If Different From Surface[illegible]


" Dedicated Acres	" Joint or Infill	" Consolidation Code	" Order No.
320 E/2	I	U	

**NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR
NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION**

16	N89°45'E	5267.46'	
5280.00'			5280.00'
N00°01'E	Section 21		N00°02'E
	2320 acres	SF-078739	
		1040'	
		1729'	
	N89°49'E	5260.20'	

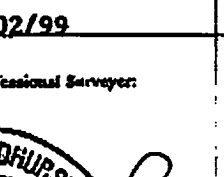
17 OPERATOR CERTIFICATION

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
 Title
 2-9-2000
 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.

12/02/99
 Date of Survey
 Signature and Seal of Professional Surveyor:


UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT--" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Phillips Petroleum Company

3. Address and Telephone No.

5525 Hwy. 64, NBU 3004, Farmington, NM 87401

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Unit I, 1729' FSL & 1040' FEL
Section 21, T30N, R5W

5. Lease Designation and Serial No.

SF-078739

6. If Indian, Altonic or Tribe Name

7. If Unit or CA, Agreement Designation

San Juan 30-5 Unit

8. Well Name and No.

SJ 30-5 Unit #51M

9. API Well No.

30-039-26381

10. Field and Pool, or Exploratory Area

Basin DK & Blanco MV

11. County or Parish, State

Rio Arriba, NM

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐ Notice of Intent

☒ Subsequent Report

☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment

☐ Recompletion

☐ Plugging Back

☐ Casing Repair

☐ Altering Casing

☒ Other As Per NTL-FRA-90-1

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut-Off

☐ Conversion to Injection

☐ Dispose Water

(Note: Report results of multiple completion or Completion or Recompletion Report and Log for)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Description of cement job to fulfill requirements for protection of usable water zones including the Ojo Alamo Formation, as per NTL-FRA-90-1.

Date: 5/15/00 Time Started: 0105 hrs Time Completed: 0240 hrs

Hole Size 8-3/4" Casing Size 7", 20#, J-55 New; Casing Set at 3731' ft.

Turbo Centralizers at 2742', 2700', 2659', , , , , , , ,

Spring Type Centralizers 3719', 3681', 3645', 3563', 3484', 3400', , , ,

Mud Flush 20 + 10 Bbls, Spacer 28 Fresh Water.

Stage 1:

Lead Slurry 465 sx (1078 cf) Type 3, 35/65 POZ w/5#/sx Gilsonite, 1/4#/sx Cello-flake

Mid Slurry 6% gel 10#/sx CSE, 3% KCl, 0.4% FL-25, 0.02 #/sx Static Free, - 2.37 yield

Tail Slurry 50 sx (70 cf) Type III, w/1/4#/sx Cello-flake, 1% CaCl2 - 1.4 yield

Stage 2:

Lead Slurry

Mid Slurry

Tail Slurry

Volume Cement Circulated 0 Bbls/Sacks Displaced Plug with 149 Bbls Fresh Water

Average Pressure 780 PSI, Average Rate 4 BPM, Bumped Plug with 1500 PSI.

TOC approx. 168'

14. I hereby certify that the foregoing is true and correct

Signature: Patsy Clugston

Title: Sr. Regulatory Clerk

(This space for Federal or State office use)

Approved by: Conditions of approval, if any:

Title:

Date: JUN 23 2000

FARMINGTON FIELD OFFICE

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, fictitious or fraudulent statement or representations as to any matter within its jurisdiction.

*See instruction on Reverse Side

RMOC

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0135
Expires: November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Phillips Petroleum Company

3a. Address

5525 Highway 64, NBU 3004, Farmington, NM 88409

3b. Phone No. (include area code)

505/599-3454

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Unit I, 1729' FSL & 1040' FEL
Section 21, T30N, R5W

5. Lease Serial No.

SF-078739

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

San Juan 30-5 Unit

8. Well Name and No.

SJ 30-5 Unit #51M

9. API Well No.

30-039-26381

10. Field and Pool, or Exploratory Area

Basin Dakota and
Blanco Mesaverde

11. County or Parish, State

Rio Arriba, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐
- Notice of Intent
-
- ☒
- Subsequent Report
-
- ☐
- Final Abandonment Notice

TYPE OF ACTION

- | | | | |
|---|---|--|--|
| <input type="checkbox"/> Acidize | <input type="checkbox"/> Deepen | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Alter Casing | <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Reclamation | <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete | <input checked="" type="checkbox"/> Other 4-1/2" |
| <input type="checkbox"/> Change Plans | <input type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon | casing report |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back | <input type="checkbox"/> Water Disposal | |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

RIH w/6-1/4" bit & drilled out cement & shoe @ 3730'. Drilled new formation to 7898' (TD). TD reached 5/22/00. Circ. hole. RIH w/4-1/2" 11.6#, I-80 casing and set @ 7898; ECP set @ 5242' with DV tool set @ 5240'. RU BJ to cement. Pumped 10 bbls 2% KCL & 10 bbls FW w/red dye. Pumped lead - 145 sx (324.8 cf) Class H 35/65 POZ w/6% gel, 10#/sx CSE, 1/4#/sx Cello-flake, 5#/sx Gilsonite, 0.3 CD-32, 0.7% FL-52 - 2.24 yield. Tail - 50 sx (70 cf) Class H w/1/4#/sx Cello-flake, 5#/sx Gilsonite, 0.3% FL-25 - 1.4 yield. Dropped plug & displaced w/121.7 bbls FW. Pressured up ECP & set. Opened DV tool.

Pumped 2nd Stage Lead - 100 sx (191 cf) Class 3 35/65 POZ w/6% gel, 3% KCl, 10#/sx CSE, 1/4#/sx Cello-flake, 5#/sx Gilsonite, 0.4% FL-52, 0.02%/sx Static Free, - 1.93 yield. Tail - 50 sx (70 cf) Type 3 w/1/4#/sx Cello-flake, 1% CaCl2 - 1.4 yield. Dropped plug & displace w/81.2 bbls. Bumped plug with 1380 psi. Held good. Returns to surface - 22 bbls water no dye. WOC.

ND BOP, set slips & cut off 4-1/2" casing. RD & released rig @ 1300 hrs 5/23/00. Will PT 4-1/2" casing with completion rig at a later date.

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Patsy Clugston

Title

Sr. Regulatory/Proration Clerk

Date

5/26/00

ACCEPTED FOR RECORD

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date JUN 23 2000

Conditions of approval, if any, are attached. Approval of this notice 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.

Office

FARMINGTON FIELD OFFICE
BY

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

50000

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED
OMB NO. 1004-0135
Expires: November 30, 2000

5. Lease Serial No.

SF-078739

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

San Juan 30-5 Unit

8. Well Name and No.

SJ 30-5 Unit #51M

9. API Well No.

30-039-26381

10. Field and Pool, or Exploratory Area

Basin Dakota and
Blanco Mesaverde

11. County or Parish, State

Rio Arriba, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- | | | | |
|---|---|--|--|
| <input type="checkbox"/> Acidize | <input type="checkbox"/> Deepen | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Alter Casing | <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Reclamation | <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete | <input checked="" type="checkbox"/> Other 7" |
| <input type="checkbox"/> Change Plans | <input type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon | Casing Report |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back | <input type="checkbox"/> Water Disposal | |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

RIH w/8-3/4" bit & tagged cement @ 290'. Drilled cement form 290' to 328'. Drilled new formatoin from 328' - 3735'. Conditioned hole. RIH w/7", 20#, J-55 casing and set @ 3731'. RU BJ to cement. Pumped 20 bbls mud clean & 20 bbls FW w/red dye in last 5 bbls. Pumped lead - 465 sx (1078 cf) Type 3 35/65 POZ w/5#/sx Gilsonite, 1/4#/sx Cello-flake, 6% gel, 10#/sx CSE, 3% KCL, 0.4% FL-25, 0.2%/sx Static Free mixed at 12.0 ppg with 2.37 yield. Pumped tail - 50 sx (70 cf) Type 3 cement w/1/4#/sx Cello-flake, 1% CaCl2, mixed at 14.5 ppg w/1.4 yield. Dropped plug and displaced w/149 bbls FW. Plug down @ 0237 hrs w/1500#. Bled back, float held, 1-1/2" bbls red dye to surface. NO cement. WOC.

ND BOP & set slips & cut off casing. NU BOP & PT casing to 200 psi for 3 minutes and 3000 psi for 30 minutes. Good test. Tom Ferg talked to Jim Lovato (BLM) and they calculated TOC approx. 168'. Verbal approval given to proceed with drilling operations.

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Patsy Clugston

Title

Sr. Regulatory/Proration Clerk

Date

5/26/00

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

ACCEPTED FOR RECORD

Approved by

Title

Date

JUN 23 2000

Conditions of approval, if any, are attached. Approval of this notice 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.

Office

FEDERAL BUREAU OF SURVEY

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.