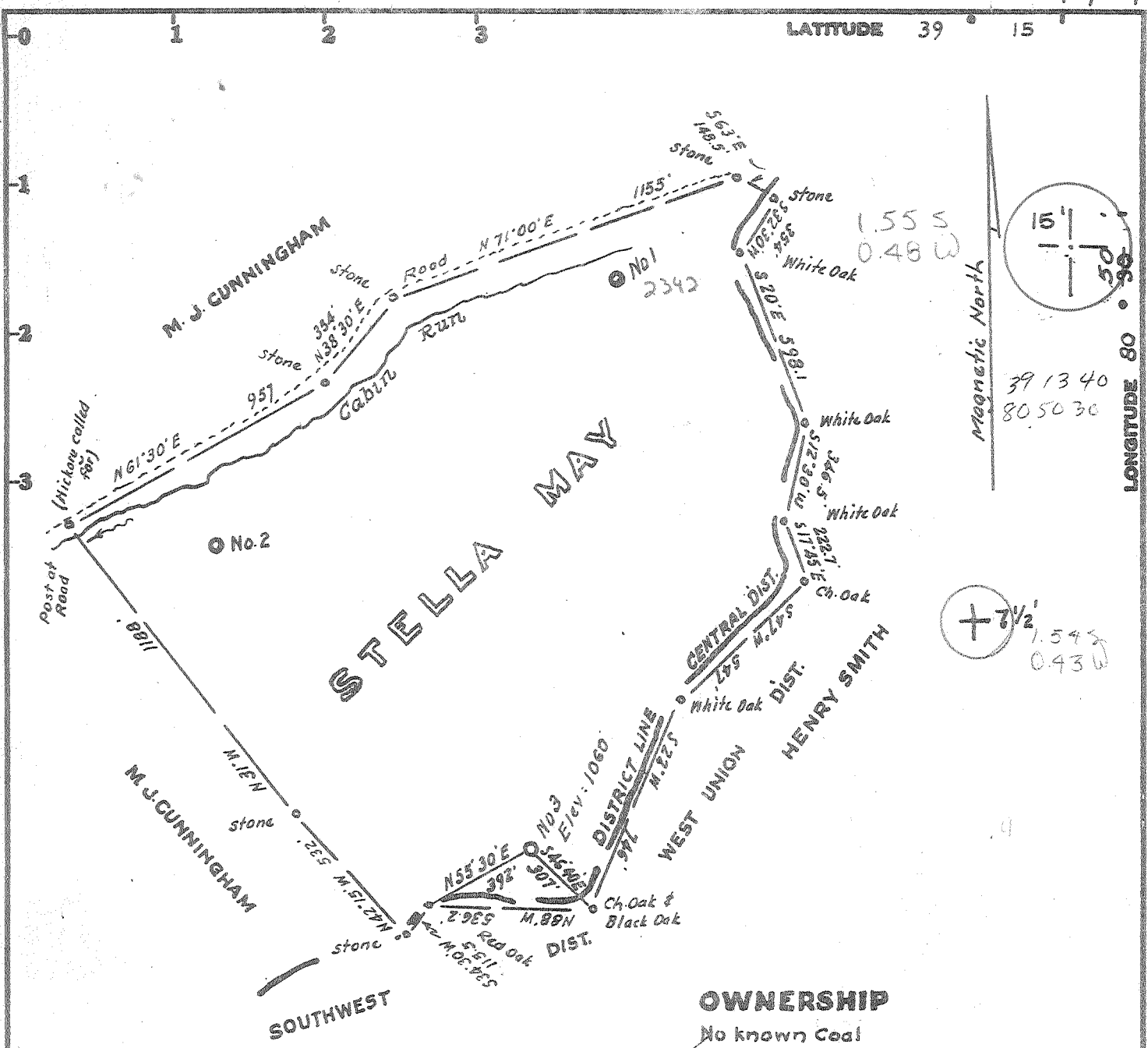
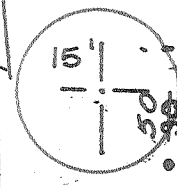


3/21/79



1.55 S  
0.48 W



39 13 40  
80 50 30

+ 7 1/2'  
1.54 S  
0.43 W

**OWNERSHIP**

No known Coal  
Surface: - Glenn Cunningham  
Parsons, West Va.

**LEGEND**

- Lines Plotted from Deed Calls
- Surveyed Lines
- .... Roads
- ~ District Lines
- o Well Locations

Minimum Error of Closure 1 in 200

Source of Elevation USGS elev. at top of hill on Dist Line = 1060

- Fracture.....
- New Location.....
- Drill Deeper.....
- Abandonment.....

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Signed: [Signature]  
Squares: N S E W

Map No.

Company CHASE PETROLEUM CORP.  
 Address P.O. Box 297, Glenville, West Va.  
 Farm Stella May  
 Tract \_\_\_\_\_ Acres 83 Lease No. \_\_\_\_\_  
 Well (Farm) No. Three Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 1060'  
 Quadrangle Oxford 7 1/2, Holbrook 15'  
 County Doddridge District Central  
 Engineer [Signature]  
 Engineer's Registration No. 1227  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date March 1, 1979 Scale 1" = 500'

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION  
CHARLESTON

**WELL LOCATION MAP**

FILE NO. 47-017-2355-REV  
CORRECTED PLAT & WELL NO

+ Denotes location of well on United States Topographic Maps, scale 1 to 24,000, latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

5300 Cedar Creek 6-2 Straight Fork-Bluestone Cr. (133) APR 10 1979

[08-78]

WELL OPERATOR'S REPORT 10  
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYS. CHG

WELL TYPE: Oil  / Gas  / Liquid Injection  / Waste Disposal   
(If "Gas", Production  / Underground storage  / Deep  / Shallow )

LOCATION: Elevation: 1136' Watershed: Cabin Run  
District: Central County: Doddridge Quadrangle: Oxford 74

WELL OPERATOR Chase Petroleum Corp. DESIGNATED AGENT Alton Skinner  
Address P.O. Box 297 Address P.O. Box 297  
Glennville, WV Glennville, WV

PLANNED WORK: Drill  / Convert  / Drill deeper  / Re-drill  / Fracture or stimulate   
Plug off old formation  / Perforate new formation   
Other physical change in well (specify) \_\_\_\_\_

FEB 28 1980

ISSUED ON March 6, 1979, 19

OIL & GAS DIVISION  
OIL & GAS INSPECTOR FOR THE STATE OF MINES  
Name P.W. Garrett  
Address Clarksburg, WV

APPLICABLE: PLUGGING OF DRY HOLE ON  
CONTINUOUS PROGRESSION FROM DRILLING OR  
REWORKING. VERBAL PERMISSION OBTAINED

LOGICAL TARGET FORMATION: Alexander Depth 5300 feet  
Depth of completed well, 5504' feet Rotary  / Cable Tools   
Water strata depth: Fresh, \_\_\_\_\_ feet; salt, 1890' feet.  
Coal seam depths: 241-46; 282-86; 195-98 Is coal being mined in the area? NO  
Work was commenced 3-14-79, 19, and completed 3-22-79, 19

LOG AND TUBING PROGRAM

| LOG OR TUBING TYPE | SPECIFICATIONS |       |               |     | FOOTAGE INTERVALS |              | CEMENT FILL-UP OR SACKS (Cubic feet) | PACKERS             |
|--------------------|----------------|-------|---------------|-----|-------------------|--------------|--------------------------------------|---------------------|
|                    | Size           | Grade | Weight per ft | New | Used              | For drilling |                                      |                     |
| Drill pipe         | 16"            |       |               | X   |                   | 30'          | 30'                                  | Minds               |
| Water              |                |       |               |     |                   |              |                                      | Sizes               |
| Intermediate       | 8 5/8"         |       | 23.5          | X   |                   | 1693.15'     | 1693.15'                             | CTS                 |
| Production         | 4 1/2"         |       | 10.5          | X   |                   | 5467         | 5467                                 | 460 BX<br>Depth set |
| Log                |                |       |               |     |                   |              |                                      | Perforations:       |
| Log                |                |       |               |     |                   |              |                                      | Top Bottom          |

OPEN FLOW DATA

Producing formation: Alexander Pay zone depth 5307-53 feet  
Gas: Initial open flow, see back Mcf/d Oil: Initial open flow, 0 bbl/d  
Final open flow, \*2400 Mcf/d Final open flow, 5 bbl/d  
Time of open flow between initial and final tests, 11 days  
Static rock pressure, \*1913 psig (surface measurement) after 7 days shut in

[If applicable due to multiple completion--]

Second producing formation: Benson Pay zone depth 4883-4887 feet  
Gas: Initial open flow, see back Mcf/d Oil: Initial open flow, 0 bbl/d  
Final open flow, \_\_\_\_\_ Mcf/d Final open flow, \_\_\_\_\_ bbl/d  
Time of open flow between initial and final tests, \_\_\_\_\_ hours  
Static rock pressure, \_\_\_\_\_ psig (surface measurement) after \_\_\_\_\_ hours shut in

[08-78]

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PRODUCTION, ETC.

3rd Zone Riley 4632-344  
 4th Zone Bradford 3870-72; 4011-124  
 Frac Alexander 684bbbls total fluid-45,000# 20/40 sand  
 Frac Benson 535bbbls total fluid-10,000# 80/100 sand + 22,500# 20/40 sand  
 Frac Riley 425bbbls total fluid-10,000# 80/100 sand + 15,000# 20/40 sand  
 Frac Bradford 495bbbls total fluid-10,000#

WELL LOG

WELL LOG

| FORMATION               | Color | Hard or Soft | Top Feet | Bottom Feet | Remarks<br>Including indication of all fresh and salt water, coal, oil and gas |
|-------------------------|-------|--------------|----------|-------------|--|
| Clay                    |       |              | 0        | 5           |  |
| sand                    |       |              | 5        | 15          |  |
| sand & shale            |       |              | 15       | 20          |  |
| red rock & shale        |       |              | 20       | 65          |  |
| sand                    |       |              | 65       | 68          | 1/2" stream wtr @ 66'  |
| sand & shale            |       |              | 68       | 113         |  |
| red rock & shale        |       |              | 113      | 168         |  |
| shale & coal            |       |              | 168      | 219         |  |
| sand                    |       |              | 219      | 241         |  |
| coal                    |       |              | 241      | 246         |  |
| sand                    |       |              | 246      | 273         |  |
| shale                   |       |              | 273      | 282         |  |
| coal                    |       |              | 282      | 286         |  |
| sand                    |       |              | 286      | 335         |  |
| red rock                |       |              | 335      | 339         |  |
| sand                    |       |              | 339      | 386         |  |
| red rock                |       |              | 386      | 394         |  |
| sand & shale            |       |              | 394      | 495         |  |
| coal                    |       |              | 495      | 498         |  |
| sand & shale            |       |              | 498      | 620         |  |
| sand                    |       |              | 620      | 681         |  |
| sand, shale, & red rock |       |              | 681      | 1023        |  |
| sand                    |       |              | 1023     | 1080        |  |
| sand & shale            |       |              | 1080     | 1152        |  |
| sand                    |       |              | 1152     | 1172        |  |
| sand & shale            |       |              | 1172     | 1212        |  |
| sand                    |       |              | 1212     | 1258        | oil odor @ 1250'   |
| sand & shale            |       |              | 1258     | 1295        |  |
| sand                    |       |              | 1295     | 1340        |  |
| sand & shale            |       |              | 1340     | 1422        |  |
| sand                    |       |              | 1422     | 1500        |  |
| shale                   |       |              | 1500     | 1506        |  |
| sand                    |       |              | 1506     | 1543        |  |
| sand & shale            |       |              | 1543     | 1577        |  |
| sand                    |       |              | 1577     | 1649        |  |
| shale                   |       |              | 1649     | 1675        |  |
| sand                    |       |              | 1675     | 1720        |  |
| shale                   |       |              | 1720     | 1730        |  |

(Attach separate sheets to complete as necessary)

Chase Petroleum

Well Operator

By

Owner

NOTE: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic, detailed geological record of all formations, including coal, encountered in the drilling of a well."

017-2355

Chase Petroleum Corp, #1 Stella May Dod-2355 continued

| FORMATION                | TOP FEET<br>10 | BOTTOM FEET | REMARKS                                    |
|--------------------------|----------------|-------------|--|
| white sand               | 1730           | 1910        |  |
| sand & shale             | 1910           | 2057        | 1/4" stm wtr @ 1890'                       |
| lime                     | 2057           | 2125        | gas test @2164', 5/10 w 7"OF= 946 mcf/d    |
| sand                     | 2125           | 2178        |  |
| sand & shale             | 2178           | 2195        |  |
| shale                    | 2195           | 2250        | gas test @2226', 58/10w2"OF= 321 mcf/d     |
| sand & shale             | 2250           | 3600        | gas test @2516', 56/10 w2"OF= 315 mcf/d    |
| light brown sand         | 3600           | 3610        | gas test 2772', 62/10 w 2"OF= 332 mcf/d    |
| sand & shale             | 3610           | 4510        | gas test @3286', 1/10w 7"OF= 423 mcf/d     |
| light brown sand         | 4510           | 4520        | gas test @3513', 23/10w2"OF= 202 mcf/d     |
| sand & shale             | 4520           | 4550        | gas test @4157', 66/10w 2"OF= 343 mcf/d    |
| light brown              | 4550           | 4560        | gas ttest @4382', 75/10 w 2"OF= 363 mcf/d  |
| sand & shale             | 4560           | 4580        | gas test @ 4607', 120/10 w 2"OF= 462 mcf/d |
| brown sand               | 4580           | 4590        | gas test @ 5054', 140/10 w 2"OF= 499 mcf/d |
| sand & shale             | 4590           | 4600        | gas test @ 5504, 120/10 w 2"OF= 402 mcf/d  |
| brown sand               | 4600           | 4670        |  |
| sand & shale             | 4670           | 4710        |  |
| light brown sand & shale | 4710           | 4720        |  |
| sand & shale             | 4720           | 4740        |  |
| light brown sand         | 4740           | 4750        |  |
| sand & shale             | 4750           | 4800        |  |
| light brown sand         | 4800           | 4810        |  |
| sand & shale             | 4810           | 4870        |  |
| light brown sand         | 4870           | 4880        |  |
| sand & shale             | 4880           | 4900        |  |
| brown sand               | 4900           | 4940        |  |
| sand & shale             | 4940           | 4990        |  |
| brown sand               | 4990           | 5000        |  |
| sand & shale             | 5000           | 5020        |  |
| brown sand               | 5020           | 5030        |  |
| sand & shale             | 5030           | 5070        |  |
| brown sand               | 5070           | 5080        |  |
| sand & shale             | 5080           | 5210        |  |
| brown sand               | 5210           | 5220        |  |
| sand & shale             | 5220           | 5280        |  |
| brown sand               | 5280           | 5290        |  |
| light brown sand         | 5290           | 5300        |  |
| brown sand               | 5300           | 5340        |  |
| sand & shale             | 5340           | 5504        |  |

APPROVED

FEB 28 1980

OIL & GAS DIVISION  
DEPT. OF MINES

MAR 10 1980

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. 2

API Well No. 47-017-235  
State County Permi

WELL TYPE: Oil  / Gas  /  
(If "Gas", Production  / Underground storage  / Deep  / Shallow )

LOCATION: Elevation: 1136 Watershed: Cabin Run  
District: Central County: Doddridge Quadrangle: Oxford 7 1/2

WELL OPERATOR Chase Petroleum Corporation DESIGNATED AGENT Alton Skinner  
Address P.O. Box 297, Glenville, WV Address P.O. Box 297, Glenville, WV

OIL & GAS ROYALTY OWNER Stella Cox May et al. COAL OPERATOR: None  
Address Oxford, WV Address \_\_\_\_\_

ACREAGE 89 COAL OWNER(S) WITH DECLARATION ON RECORD:  
SURFACE OWNER Glen C. Cunningham Name No Coal  
Address Oxford, WV Address \_\_\_\_\_

FIELD SALE (IF MADE) TO:  
Name \_\_\_\_\_ Address \_\_\_\_\_

COAL LESSEE WITH DECLARATION ON RECORD:  
Name \_\_\_\_\_ Address \_\_\_\_\_

OIL & GAS INSPECTOR TO BE NOTIFIED  
Name Paul Carrett Address Clarksburg, WV  
Phone 622-3871

OIL & GAS DIVISION  
DEPT. OF MINES

MAR - 3 1979

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed  / lease  / other contract  / dated April 5, 1978, to the undersigned well operator from Stella May et al., W.

[If said deed, lease, or other contract has been recorded]:  
Recorded on July 3, 1978, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in Deed Book 104 at page 275. A permit is requested as follows:

PROPOSED WORK: Drill  / Drill deeper  / Redrill  / Fracture or stimulate  /  
Plug off old formation  / Perforate new formation  /  
Other physical change in well (specify) \_\_\_\_\_

--planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code § 22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:  
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION  
1615 WASHINGTON STREET EAST  
CHARLESTON, WV 25311  
TELEPHONE: (304) 348-3092

BLANKET BOND

Chase Petroleum Corporation  
Well Operator  
By Alton Skinner *Alton Skinner*  
Its President

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:  
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) S.W. Jack, Drilling Company  
Address Buckhannon, WV  
Phone 304-472-2161

GEOLOGICAL TARGET FORMATION, Cedercreek

Estimated depth of completed well, 5300 feet Rotary  / Cable tools  /  
Approximate water strata depths: Fresh, 30 feet; salt, 1200 feet.  
Approximate coal seam depths: No Coal Is coal being mined in the area? Yes  / No

CASING AND TUBING PROGRAM

| CASING OR TUBING TYPE | SPECIFICATIONS |       |               |     |      | FOOTAGE INTERVALS |              | CEMENT FILL-UP OR SACKS (Cubic feet) | PACKERS       |        |
|-----------------------|----------------|-------|---------------|-----|------|-------------------|--------------|--------------------------------------|---------------|--------|
|                       | Size           | Grade | Weight per ft | New | Used | For drilling      | Left in well |                                      |               |        |
| Conductor             | 73             |       |               |     | x    | 30                | 30           | 30                                   | Kings         |        |
| Fresh water           |                |       |               |     |      |                   |              |                                      |               |        |
| Coal                  |                |       |               |     |      |                   |              |                                      | Sizes         |        |
| Intermediate          | 8 5/8"         |       | 23#           | x   |      | 1680              | 1680         | CTS                                  |               |        |
| Production            | 4 1/2"         |       | 10.5#         | x   |      | 5200              | 5200         | 3000                                 | Depths set    |        |
| Tubing                |                |       |               |     |      |                   |              |                                      |               |        |
| Liners                |                |       |               |     |      |                   |              |                                      | Perforations: |        |
|                       |                |       |               |     |      |                   |              |                                      | Top           | Bottom |
|                       |                |       |               |     |      |                   |              |                                      | 2400          | 2420   |
|                       |                |       |               |     |      |                   |              |                                      | 5140          | 5150   |

**NOTE:** Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code § 22-4-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

**THIS PERMIT MUST BE POSTED AT THE WELL SITE**

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 11-6-79.

*[Signature]*

Deputy Director Oil & Gas Division completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code § 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof:

W A I V E R

The undersigned coal operator          / owner          / lessee          / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date:                         , 19         

By     
Its