Finis 18 U.S.C. See than 1961 makes at a

#### SUBMIT IN TRIPLICATE\*

(Other instructions on reverse side)

FORM APPROVED OMB NO. 1004-0136 Expires: February 28, 1995

# UNITED STATES DEPARTMENT OF THE INTERIOR

5. LEASE DESIGNATION AND SERIAL NO. BUREAU OF LAND MANAGEMENT 14-20-603-2199
6. IF INDIAN, ALLOTTED OR TRIBE NAME APPLICATION FOR PERMIT TO DRILL OR DEEPEN 1a. TYPE OF WORK NAVAJO NATION DRILL X DEEPEN -UNIT AGREEMENT NAME b. TYPE OF WELL N.W. CHA CHA UNIT WELL X  $\sqrt{x}$ MULTIPLE ZONE OTHER 8. FARM OR LEASE NAME, WELL NO. 2. NAME OF OPERATOR 8095 SIRGO BROTHERS ENERGY CORP. AS\_ N.W. CHA CHA UNIT#26 FOR MOUNTAIN STATES PETROLEUM CORP. / 15346 9. API WELL NO 3. ADDRESS AND TELEPHONE NO 30-045-29187 FIELD AND POOL, OR WILDCAT P. O. BOX 3531, MIDLAND, TX 79702 (915) 685-0.

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*) (915)685-0878 11880 CHA CHA (GALLUP) 2077' FSL & 317' FEL Unit I, Sec.22, T29N, R14W, NMPM 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA At proposed prod zone T Sec. 22, T29N, 2105' FSL & 851' FEL Unit I 14 DINTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\* R14W, NMPM 12. COUNTY OR PARISH 5 MILES SOUTHWEST OF FARMINGTON 13. STATE 15 DISTANCE FROM PROPOSED 34,480 from unit LOCATION TO NEAREST 34,480 from unit PROPERTY OR LEASE LINE, FT (Also to Dearest drig, unit line, if any, boundary SAN JUAN MM16. NO. OF ACRES IN LEASE NO. OF ACRES ASSIGNED 1632 DISTANCE FROM PROPOSED LOCATION\*
TO NLABEST WELL, DRILLING, COMPLETED 1896 from OR APPLIED FOR, ON THIS LEASE, FT. Well #30 80 -19. PROPOSED DEPTH 20. ROTARY OR CABLE TOOLS OR APPLIED FOR, ON THIS LEASE, FT. Well #30 5350
21. ELEVATIONS (Show whether DF, RT, GR, And Estion is 525,537 (2) 1976, 1976 Rotary 5350 22. APPROX. DATE WORK WILL START precedural review pursuant to 43 CFR 3168.3 5494 GR d appeal pursuant to 43 CFA 5185.4. March 20, 1994 DRILLING OPERATIONS AUTHORIZED ARE PROPOSED CASING AND CEMENTING PROGRAM SUBJECT TO COMPLIANCE WITH ATTACHED SIZE OF HOLE WEIGHT PER FOOT SETTING DEPTH "GENERAL REQUITEMENTS" ENT 20 12-1/4" J-55,8-5/8" 24# 765 sacks 900 sacks 7-7/8" J-55,4-1/2" 10.5# 5350**'** Circulate cement to surface on 8-5/8" surface pipe. l. Will two stage 4-1/2" casing to circulate cement back to surface pipe. BOP Diagram attached. Deviation Program attached. OIL COM. DIV. IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or essulface locations and measured and true vertical depths. Give blowout preventer program, if any. 11 GEN07M. A. Sirgo, DATE Mar. 17, 1994 (This space for Federal or State office use) HYYKOVED PERMIT NO -Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which wou ASI AMPENDED CONDITIONS OF APPROVAL, IF ANY SEP 25:1994 Janoden JANAGER DD-94 (RISBHL) \*See Instructions On Reverse Side

District I PO Box 1980, Hobbs, NM 88241-1980 District []

PO Drawer DD, Artesia, NM 88211-0719

1000 Riu Hruzos Rd., Aztec. NM 87410

PO Box 2088, Santa Fc, NM #7504-2088

District III

District IV

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102

Revised February 21, 1994

Instructions on back

# OIL CONSERVATION DIVISION PO Box 2088

Submit to Appropriate District Office State Lease - 4 Copies

Santa Fe, NM 87504-2088

SA COT -3 FM 2: AMENDED REPORT Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLATE IN

API Number	1 Pool Code 11880	* Pool Name Cha Cha Gallup
1 Property Code 8095	NW Cha Cha Unit	' Well Number
'OCRID No. 15346 Mountain States		ne Nume

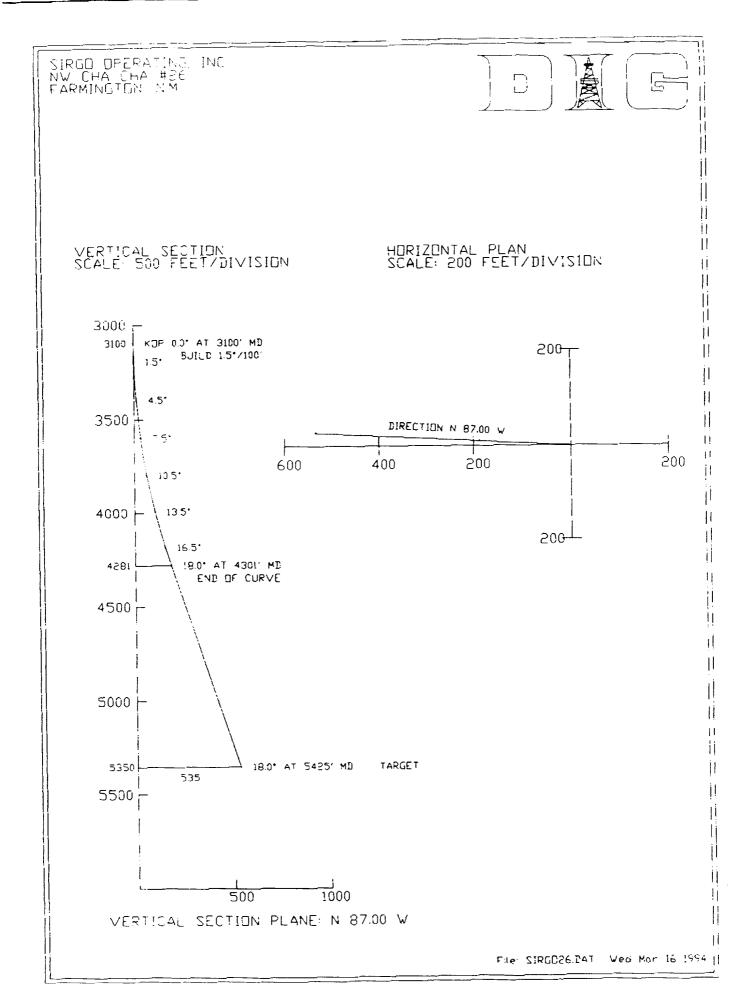
Surface Location

UL or lot bo.	Section 2.2	Township 29N	Range 14W	Lot Ida	Feet from the	North/South line South	Feet from the	East/West line East	County San Juan
Bottom Hole Location If Different From Surface									
I	Section 22	Township 29N	Range 14W	Lot Ida	Feet from the 2105	North/South line South	Feet from the 851	East/West line East	County San Juan

12 Dedicated Acres " Joint or Infill 14 Consolidation Code " Order No. 80 N

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROX

		NDARD UNIT HAS E	BEEN APPROVED I	SY THE DIVISION
16			C C	
		PECE	п	
		UU oct -	6 1994	Signature Signature
		102 110 Taid	l. DIV. 3	M. A. Sirgo, III Printed Name Agent
	SEC.	22	* ***	Sept. 9, 1994 Date
	JLC.	22	851' # 1 1 1 317	18SURVEYOR CERTIFICATION  i hereby certify that the well location shown on this plat
	CCEPTED FOR F	į.	2077	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 bester.
	OCT 0319	UFFICE	5355,92	Date of Survey Signature and Bear of Independent Surveyor:
_N 87-28-57 W	ВУ	5278,26		8894 Certificate Number



D.I.G., INC.

SIRGO OPERATING, INC. NW CHA CHA #26 FARMINGTON, N.M.

Calculated by Minimum Curvature Method Vert Sect Plane: N 87.00 W

#### - DIRECTIONAL WELLPLAN -

\_\_\_\_\_

MEASURED	INCL	DRIFT	COURSE	TRUE	TO	TAL	VERTICAL	CLO	SURE	DOGLEG
DEPTH	ANGLE	DIRECTION	LENGTH	VERTICAL	RECTANGULAR	COORDINATES	SECTION	DISTANCE	DIRECTION	SEVERITY
(FT)	(DEG)	(DEG)	(FT)	DEPTH	<b>(</b> F	(1:	(FT)	(FT)	(DEG)	(DG/100')
3100.00	0.00	N 0.00 E	0.00	3100.00	0.00 N	0.00 E	0.00	0.00	N 0.00 E	0.00
3200.00	1.50	N 87.00 W	100.00	3199.99	0.07 N	1.31 W	1.31	1.31	N 87.00 W	1.50
3300.00	3.00	N 87.00 W	100.00	3299,91	0.27 N	5.23 W	5.23	5.23	N 87.00 W	1,50
3400.00	4.50	N 87.00 W	100.00	3399.69	0.62 N	11.76 W	11.77	11.77	N 87.00 W	1.50
3500.00	6.00	N 87.00 W	100.00	3499.27	1.10 N	20.90 W	20,92	20.92	N 87.00 W	1.50
3600.00	7.50	N 87.00 W	100.00	3598.57	1.71 N	32.63 W	32.68	32.68	N 87.00 W	1.50
3700.00	9.00	N 87.00 W	100.00	3697.54	2.46 N	46.96 W	47.03	47.03	N 87.00 W	1.50
3800.00	10.50	N 87.00 W	100.00	3796.09	3.35 N	63.87 W	63.96	63.9 <del>6</del>	N 87.00 W	1.50
3900.00	12.00	N 87.00 W	100.00	3894.16	4.37 N	83.36 W	83.47	83.47	N 87.00 W	1.50
4000.00	13.50	N 87.00 W	100.00	3991.70	5.53 N	105.39 W	105.54	105.54	N 87.00 W	1.50
4100.00	15.00	N 87.00 W	100.00	4088.62	6.82 N	129.98 W	130.15	130.15	N 87.00 W	1,50
4200.00	16.50	N 87.00 W	100.00	4184.86	8.24 N	157.08 W	157.30	157.30	N 87.00 W	1.50
4300.00	18.00	N 87.00 W	100.00	4280.36	9.79 N	186.69 W	186.95	186.95	N 87.00 W	1.50
END OF CU	tv <b>ë</b>									
4300.76 TARGET	18.01	N 87.00 W	0.76	4281.08	9.80 N	186.93 W	187.19	187.19	N 87.00 W	1.50
5424.76	18.01	N 87.00 ₩	1124.00	5350.00	28.00 N	534.00 W	534.73	534.73	N 87.00 W	0.00

Survey Ref: Well Head Closure Ref: Wall Head Vert Sect Ref: Well Head Wed Mar 16 1994 18:05:06 File: SIRGO26.DAT

# SIRGO BROTHERS ENERGY CORP.

NW CHA CHA UNIT WELL NO. 26 2077' FSL & 317' FEL UNIT I Sec. 22, T29N, R14W, NMPM SAN JUAN COUNTY, NEW MEXICO

# A. DRILLING PROGRAM

1. <u>Surface Formation</u>: San Jose

# Estimated tops of Geological Markers

Ungraded Ground Elevation - 5494'

<u>FORMATION</u>	DEPTH BELOW G.L.
San Jose Picture Cliffs Lewis Chacra Cliffhouse Point Lookout Mancos	Surface 1066' 1265' 2001' 2638' 3557' 3837'
Gallup U. Horseshoe	4767' 5087'
L. Horseshoe	5113'
Cha Cha Tocito	5132'
Sanastee	5189 <b>'</b> 5221 <b>'</b>
Total Depth	5350 <b>'</b>

# 2. Estimated Depth at which oil, gas, water or other mineral-bearing zones are expected to be encountered.

Expected oil zones: Expected gas zones:	<u>Formation</u> Gallup Fruitland	<u>Top</u> 4767 '	<u>Bottom</u> 5189'
	Picture Cliffs	1066'	1166'
	Mesa Verde	2638'	3837 <b>'</b>

Expected water zones: May encounter water flows from

the Menefee formation between the Cliffhouse at 2638' and the

Point Lookout at 3557'

Expected Mineral Zones: None

3. <u>Pressure Control - BOP (See Attachment No. 1)</u>
Wellhead: Casinghead 8-5/8" x 10" - 3000 psi w.p.
(See Attachment No. 2)

BOP Stack and Related Equipment (See Attachment No. 1) One double-gate BOP with 4-1/2" pipe rams and blind rams. The BOP will be hydraulically operated by an accumulator with 1-1/2 times the necessary capacity to close all rams and retain a minimum of 200 psi above precharge. The remote unit (accumulator) will be located in the bottom "dog house" or on the ground between the "dog house" and toolpusher's trailer. A rotating head on top of the BOP stack will be utilized.

A kelly cock will be utilized and a stabbing valve will be on the rig floor.

Two-choke manifold with adjustable and positive chokes.

The choke line will be as straight as possible and turns, if required, will use "T" blocks.

Although 3000 psi BOP equipment will be used, equipment determination (BOP & manifold), line sizing and testing are based on the requirements for 2000 psi BOP equipment due to the known drilling and reservoir conditions.

#### Testing Procedure:

BOP (pipe and blind rams) and choke manifold will be tested at the rated working pressure of the stack or to 70% of the internal yield of the surface casing as required by the provisions of Onshore Oil and Gas Order No. 2. Tests will be performed at time of installation, following all repairs, prior to drilling out each casing shoe, and at least every 30 days. BOP's will be operationally tested daily and each test will be logged in the IADC Daily Drilling Report. All related requirements of Onshore Oil and Gas Order No. 2 will be met.

#### Blooie Line:

The blooie line and related equipment will meet all requirements of Onshore Oil and Gas Order No. 2.

NW Cha Cha Unit Well No. 26 Drilling Program Page 3

#### 4. <u>Casing Program</u>

Surface Casing - 8-5/8" @ 210'
(Mud wt. +- 8.6-8.8 ppg)

Depth Size Wt. Grade Thread New/Used 210' 8-5/8" 24# J-55 8RD-ST&C \*Used

\*Drifted and Tested

Note: Surface casing shall have centralizers on every joint starting at the shoe joint and ending on the last joint at surface.

Production Casing 4-1/2" at TD
 (Mud wt. +- 8.4-8.6 ppg)

Depth Size Wt. Grade Thread New/Used TD-Surf 4-1/2" 10.5# J-55 8RD-LT&C \*Used & ST&C

\*Drifted and tested

Minimum Safety Factors

Collapse: 1.125 Tension: 1.8 Burst: 1.0

#### Casing Testing:

All casing strings will be pressure tested to 0.22 psi/ft or 1500 psi (whichever is greater) but not to exceed 70% of the minimum internal yield.

#### Cementing Program:

- A.) Surface Casing The surface casing will be cemented to surface to isolate any fresh water zones w/165 sks 2% CaCl2 + 1/4# sk Flocele per sack. (Volume plus 100% excess) slurry weight 15.60 lb/gal, yield 1.19 cu ft/sk. Cement hardware to include guide shoe, insert float valve and centralizers.
- B.) Production Casing The production casing will be cemented in 2 stages as follows: DV tool @ +- 1000'

1st Stage: 630 sks w/2% CaCl plus .375#/sk Flocele (lost circulation additive) slurry weight 12.40#/gal, slurry yield 1.83 ft 3/sk (50% excess).

NW Cha Cha Unit Well No. 26 Drilling Program Page 4

2nd Stage: 230 sks w/1% CaCl plus .5% HALAD-322 (fluid loss additive) slurry weight 15.6#/gal, slurry yield 1.19 ft 3/sk (50% excess)

(50% excess).

Casing hardware for production string to include guide shoe, insert float collar, centralized shoe joint and bottom five joints. Centralizers above and below stage tool, oil and gas zones as needed and across Menefee formation.

#### Auxiliary Equipment:

1. Kelly Cock

- 2. Stabbing valve when kelly is out of string
- 3. Rotating head

#### 5. <u>Drilling Fluid</u>:

300'-TD Fresh wtr/new drill 8.6-9.0 35-45 NC (50' from TD add gel for viscosity 50-60 to insure logging and casing operations).

Actual mud volume and/or mud reserve material will be equal to or greater than the active system capacity. System volume (steel tanks only) will be approx. 400 bbls. Sufficient LCM material will be on location and utilized to control loss circulation problems if any.

Note: Because of the highly developed area surrounding the proposed well and the well-known drilling conditions, flow sensors and PVT's will not be utilized.

# 6. Testing, Logging and Coring Program:

DST's: None planned

Logging: Surface casing to TD: GR/CNL

Coring: None planned

Completion: After drilling and running and cementing the production casing, the drilling rig will be removed and a service unit will be moved in. BOP's of similar pressure rating as those used to drill with will be used. The Gallup formation will be selectively perforated and hydraulically fracture stimulated. The well will then be rod pumped through tubing.

NW Cha Cha Unit Well No. 26 Drilling Program Page 5

# 7. Abnormal Pressures, Temperatures and Potential Hazards:

- A.) Due to numerous wells drilled in the unit, no above normal pressure zones are anticipated.
- B.) No above normal temperatures are anticipated.
- C.) No hydrogen sulfide gas is anticipated.

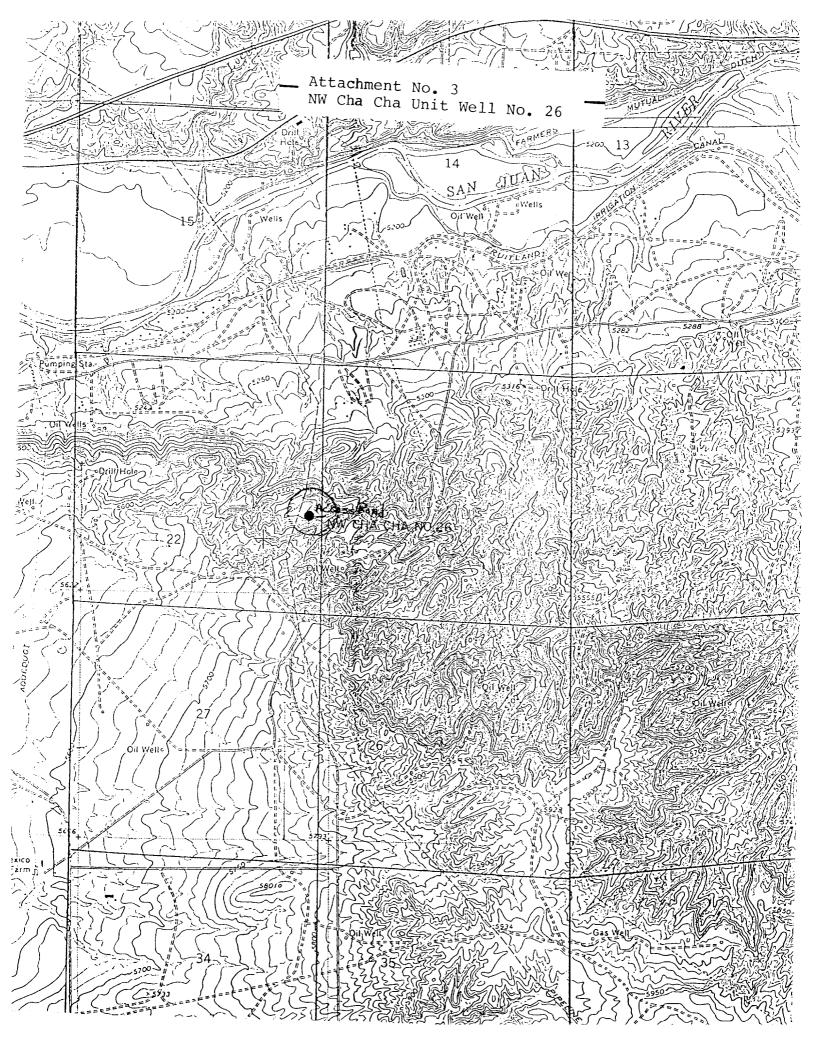
#### 8. Additional Information:

#### Starting Date:

Road and location work will begin (with appropriate approvals) between March 20, 1994 and April 10, 1994 - weather permitting. Drilling will commence shortly after completion of the road and location.

### Duration of Operation:

Drilling - 10 days Completion - 4 days



Form 3160-5 (June 1990)

# **UNITED STATES** DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELL

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

				<del>• • • • • • • • • • • • • • • • • • • </del>	
Lease	Desig	nation	and	Serial No.	
	~ ~		_		

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Do not use this form for proposals to drill or to deepen or reentry to a different re	servoit.'
Do not use this form for proposals to drill or to deepen or reentry to a different re Use "APPLICATION FOR PERMIT—" for such proposals:	्रा ए । या विभाग

Navajo Nation

SUBMI	T IN TRIPLICATE	7. If Unit or CA, Agreement Designation	
Type of Weil Oil Gas Weil Well Other		NW Cha Cha Unit	
2. Name of Operator Sirgo Brothers E	nergy Corn Agent for	NW Cha Cha Unit #2	
Mountain States Petrol	eim Corp	9. API Well No.	
3. Address and Telephone No.	Con Colpe ,	30-045-29187	
P O Box 3531. Midland	TX 79702 915/685-0878	10. Field and Pool, or Exploratory Area	
4. Location of Well (Footage, Sec., T., R., M., or Survey )	Description)	Cha Cha Gallup	
2077' FSL & 317' FEL U	nit I Sec. 22, T29N, R14W,NMPM	11. County or Parish, State	
2105' FSL & 851' FEL U	nit I Sec. 22, T29N, R14W,NMPM	San Juan, NM	
CHECK APPROPRIATE BOX	(s) TO INDICATE NATURE OF NOTICE, REPO	RT, OR OTHER DATA	
TYPE OF SUBMISSION	TYPE OF ACTION		
Notice of Intent  Subsequent Report	Abandonment Recompletion Plugging Back	Change of Plans  New Construction  Non-Routine Fracturing	
Final Abandonment Notice	Casing Repair Altering Casing Cother Spud & Run Casing	Water Shut-Off Conversion to Injection Dispose Water (Note: Report results of multiple completion on Well	
gere substitute rocations and incastrict and title verti	Il pertinent details, and give pertinent dates, including estimated date of starting cal depths for all markers and zones pertinent to this work.)*	any proposed work. If well is directionally drilled,	
1. MI&RU United Drilling.	Spud at 4:00 p.m. 10-4-94.		
2. Drilled to 240'. Set	5 jts. 8-5/8" OD 24# J55 casing	at 225'.	
Cemented w/195 sx Clas	s B + $1/4\#$ Celloseal + 2% CaCl.	Yield 1.18	
cu. ft. Circulated 50			
3. WOC 18 hrs. Tested ca	sing to 1000# for 30 min., held	okay.	
4. Drilled to 5346' TD 10			
12% gel + 2% CaCl + 1/ w/100 sx B + 2% CaCl. surface. WOC.	J55 casing at 5346'. Cemented v4#/sx Celloseal. Yield 2.36 cu Yield 1.18 cu. ft. Cement circ	. ft. Tail in	
6. Waiting on completion	unit.		

14. I hereby certify that the foregoing is true and correct Agent (This space for Federal or State office use) 

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 and last, netitious or insudulent statements or representations as to any matter within its jurisdiction.