

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

b. TYPE OF WELL

OIL
WELL ☒

GAS
WELL ☐

OTHER ☐

SINGLE
ZONE ☒

MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

SIRGO BROTHERS ENERGY CORP. AS AGENT
FOR MOUNTAIN STATES PETROLEUM CORP. 15346

3. ADDRESS AND TELEPHONE NO.

P. O. BOX 3531, MIDLAND, TX 79702 (915) 685-0878

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

1394' FWL & 2067' FNL Unit F

At proposed prod. zone

Sec. 27, T29N, R14W, NMPM

1985' FNL & 672' FWL Sec. 27, T29N, R14W, NMPM

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

5 MILES SOUTHWEST OF FARMINGTON

10. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drig. unit line, boundary)

2586' from unit

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

1551' from

Well #50

16. NO. OF ACRES IN LEASE

1440

19. PROPOSED DEPTH

5400'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

5/80

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5670' GR

22. APPROX. DATE WORK WILL START*

March 20, 1994

23.

procedural review pursuant to 43 CFR 160.104
and appeal pursuant to 43 CFR 160.104

DRILLING OPERATIONS AUTHORIZED ARE

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT (MINIMUM REQUIREMENTS)*
12-1/4"	J-55, 8-5/8"	24#	210'	165 sacks
7-7/8"	J-55, 4-1/2"	10.5#	5400'	900 sacks

1. Circulate cement to surface on 8-5/8" surface pipe.

2. Will two stage 4-1/2" casing to circulate cement back to surface pipe.

3. BOP Diagram attached.

4. Deviation Plan attached.

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MAY 12 1994

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DIST. 3

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DIST. 3

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

M. A. Sirgo, III

TITLE

President

DATE

Feb. 17, 1994

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED
AS AMENDED

Application approval 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 operations thereon.
CONDITIONS OF APPROVAL, IF ANY:

DD-93

NMOCD

MAY 04 1994

APPROVED BY

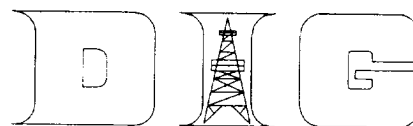
TITLE

DATE

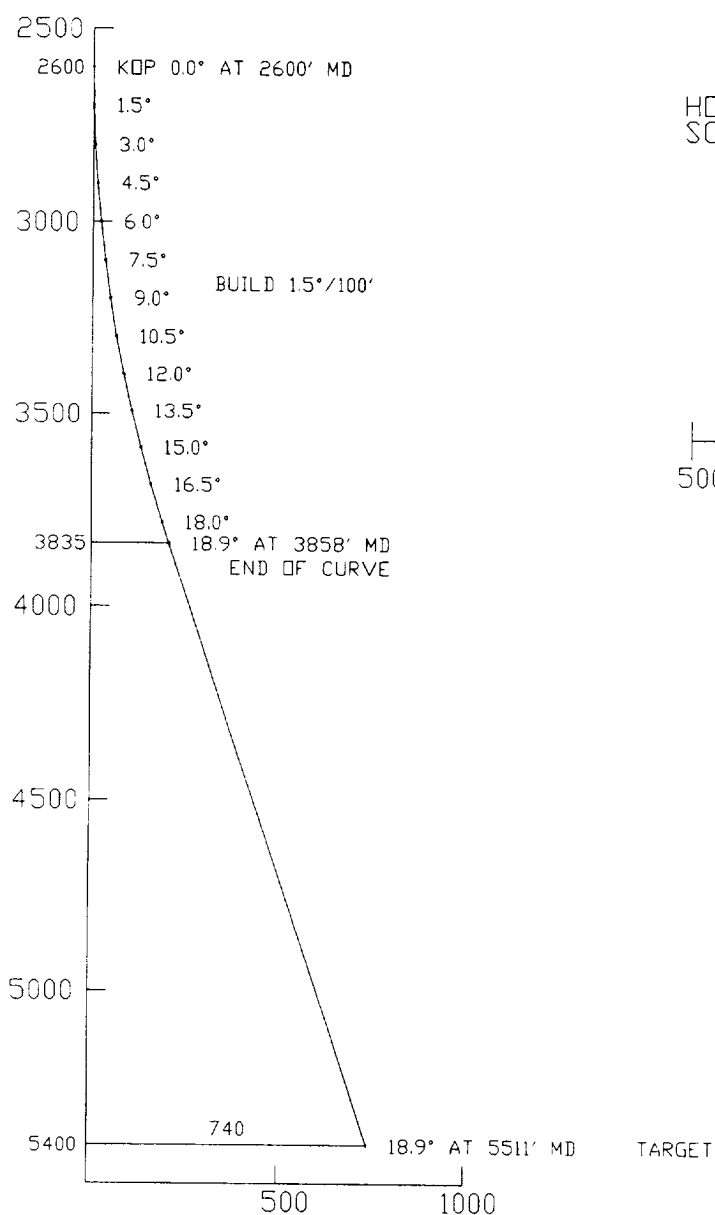
DISTRICT MANAGER

*See Instructions On Reverse Side

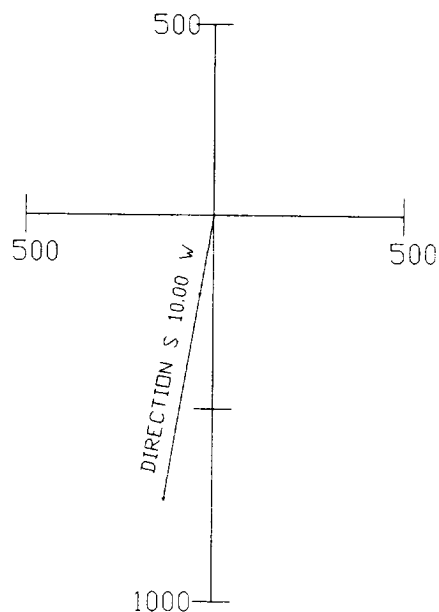
SIRGO OPERATING
WELL #48
FARMINGTON N.M.



VERTICAL SECTION
SCALE: 500 FEET/DIVISION



HORIZONTAL PLAN
SCALE: 500 FEET/DIVISION



VERTICAL SECTION PLANE: S 10.00 W

D.I.G. INC.

SIRGO OPERATING
WELL #48
FARMINGTON N.M.

Calculated by Minimum Curvature Method
Vert Sect Plane: S 10.00 W

- DIRECTIONAL WELLPLAN -

MEASURED DEPTH (FT)	INCL ANGLE (DEG)	D R I F T DIRECTION (DEG)	COURSE LENGTH (FT)	TRUE VERTICAL DEPTH	T O T A L RECTANGULAR COORDINATES (FT)		VERTICAL SECTION (FT)	C L O S U R E DISTANCE DIRECTION (FT) (DEG)		DOGLEG SEVERITY (DG/100')
2600.00	0.00	N 0.00 E	0.00	2600.00	0.00	N 0.00 E	0.00	0.00	N 0.00 E	0.00
2700.00	1.50	S 10.00 W	100.00	2699.99	1.29	S 0.23 W	1.31	1.31	S 10.00 W	1.50
2800.00	3.00	S 10.00 W	100.00	2799.91	5.16	S 0.91 W	5.23	5.23	S 10.00 W	1.50
2900.00	4.50	S 10.00 W	100.00	2899.69	11.60	S 2.04 W	11.77	11.77	S 10.00 W	1.50
3000.00	6.00	S 10.00 W	100.00	2999.27	20.61	S 3.63 W	20.92	20.92	S 10.00 W	1.50
3100.00	7.50	S 10.00 W	100.00	3098.57	32.18	S 5.67 W	32.68	32.68	S 10.00 W	1.50
3200.00	9.00	S 10.00 W	100.00	3197.54	46.31	S 8.17 W	47.03	47.03	S 10.00 W	1.50
3300.00	10.50	S 10.00 W	100.00	3296.09	62.99	S 11.11 W	63.96	63.96	S 10.00 W	1.50
3400.00	12.00	S 10.00 W	100.00	3394.16	82.20	S 14.49 W	83.47	83.47	S 10.00 W	1.50
3500.00	13.50	S 10.00 W	100.00	3491.70	103.94	S 18.33 W	105.54	105.54	S 10.00 W	1.50
3600.00	15.00	S 10.00 W	100.00	3588.62	128.18	S 22.60 W	130.15	130.15	S 10.00 W	1.50
3700.00	16.50	S 10.00 W	100.00	3684.86	154.91	S 27.31 W	157.30	157.30	S 10.00 W	1.50
3800.00	18.00	S 10.00 W	100.00	3780.36	184.11	S 32.46 W	186.95	186.95	S 10.00 W	1.50
END OF CURVE										
3857.86	18.87	S 10.00 W	57.86	3835.25	202.13	S 35.64 W	205.25	205.25	S 10.00 W	1.50
TARGET										
5511.46	18.87	S 10.00 W	1653.61	5400.00	728.76	S 128.50 W	740.00	740.00	S 10.00 W	0.00

State of New Mexico
Energy, Minerals and Natural Resources Department

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BLM

Form C-102
Revised 1-1-89

Submit to Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

AMENDED

OIL CONSERVATION DIVISION

DISTRICT I
P.O. Box 1980, Hobbs, N.M. 88240

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

070 WELL LOCATION, NM

DISTRICT II
P.O. Drawer DD, Artesia, N.M. 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT
All Distances must be from the outer boundaries of the section

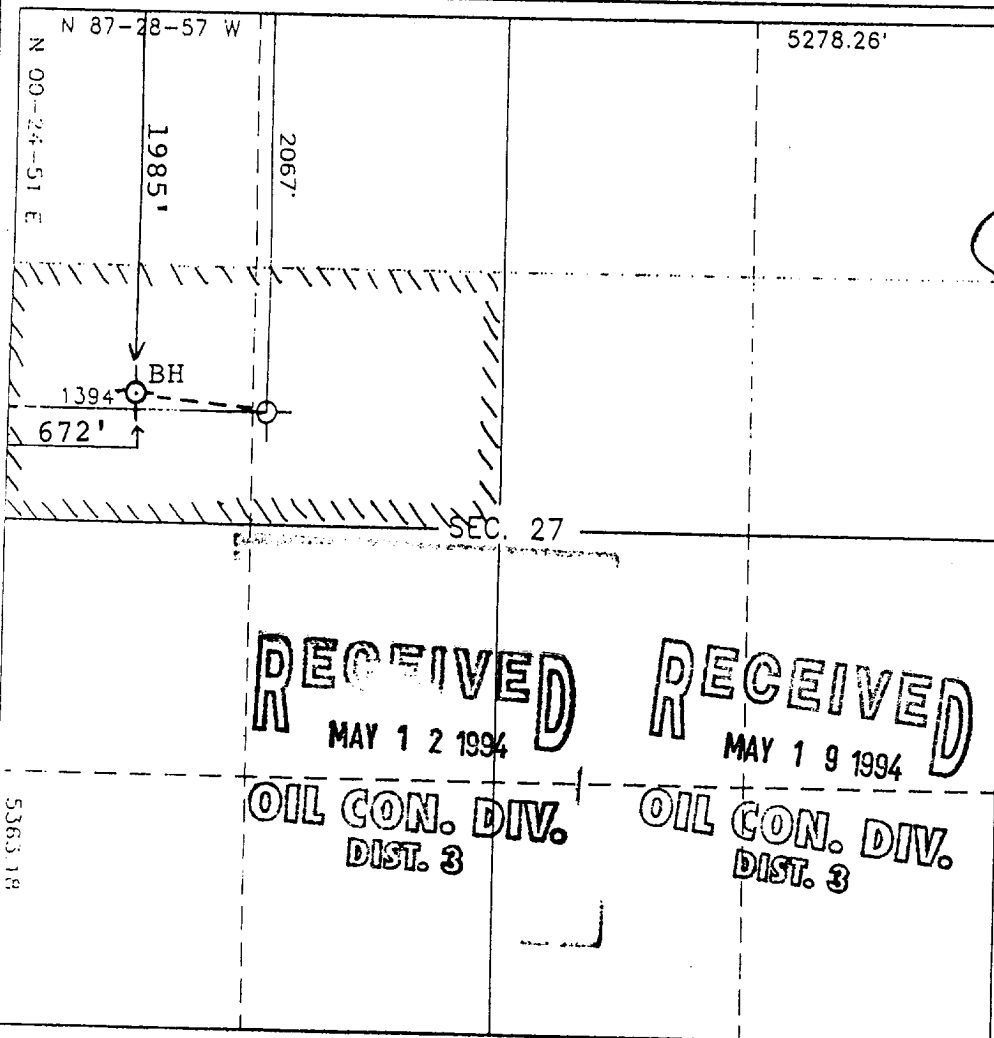
Operator SIRGO OPERATING, INC.			Lease NW CHA CHA		Well No. 48
Unit Letter F	Section 27	Township 29 NORTH	Range 14 WEST	County SAN JUAN	
Actual Footage Location of Well: 1394 feet from the WEST line and 2067 feet from the NORTH line					
Ground level Elev. 5670	Producing Formation Gallup		Pool Cha Cha Gallup	Dedicated Acreage: 80 Acres	

- Outline the acreage dedicated to the subject well by colored pencil or hatchure mark on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?

☐ Yes
 ☐ No

If answer is "yes" type of consolidation _____

If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)
No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



OPERATOR
SURVEYOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature
BRIAN M SIRGO
Printed Name
VICE PRESIDENT
Position
SIRGO OPERATING INC
Company
MAY 18, 1994
Date

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 knowledge and belief.

Date Surveyed
JANUARY 20, 1994
Signature & Seal of Professional Surveyor
ROYAL RUSH
Professional Land Surveyor
Certificate No. **8894**

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MAY 19 1994

OIL CON. DIV.
DIST. 3

Attachment No. 3
NW Cha Cha Unit Well No. 48

SAN JUAN

