

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. 89IND56	
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo	
2. NAME OF OPERATOR WEST GAS, INC.		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR Suite 350, Rocky Village, Billings, Montana 59102		8. FARM OR LEASE NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 850 FSL, 1500 FWL, Sec. 12, T29N, R19W At proposed prod. zone Same		9. WELL NO. West Gas #5	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 9 miles Southwest of Shiprock, New Mexico		10. FIELD AND POOL, OR WILDCAT Rattlesnake, Dakota	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 850'		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	
16. NO. OF ACRES IN LEASE 4060.		12. COUNTY OR PARISH San Juan	
17. NO. OF ACRES ASSIGNED TO THIS WELL 402 acres		13. STATE N.M.	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 450'		19. PROPOSED DEPTH 800'	
20. ROTARY OR CABLE TOOLS rotary		21. APPROX. DATE WORK WILL START* within 30 days	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5231 GL		22. APPROX. DATE WORK WILL START* within 30 days	

23. PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
9-7/8"	7"	23#	30'	20 sxs
6-1/4"	4 1/2"	9.5#	800'	150 sxs

West Gas proposes to drill the above well to develop the Dakota Sand in the Rattlesnake Field. Completions will be determined by open hole logs, FDC, CNL, IES. A copy of all logs will be filed with your office on completion.



IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new 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 Barry Laidlaw TITLE Opr. Mgr. DATE 3-3-78
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE RECEIVED
CONDITIONS OF APPROVAL, IF ANY:

*Sold C-104 for M.S.L.
ok Frank*

*See Instructions On Reverse Side

MAR 6 1978

U.S. GEOLOGICAL SURVEY
FARMINGTON, UTAH

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

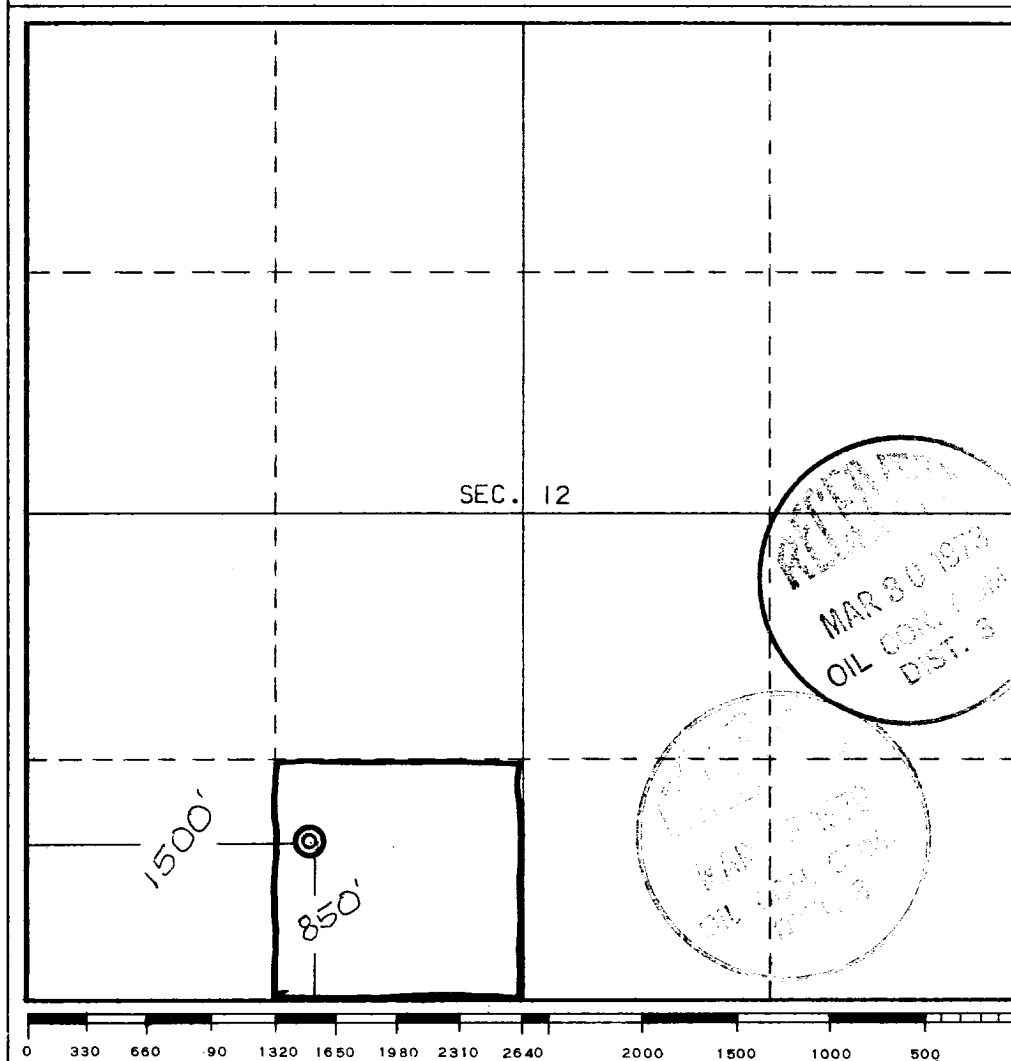
Operator West Gas Incorporated			Lease <i>Lease 1-1-65</i>		Well No. 5
Unit Letter N	Section 12	Township 29 North	Range 19 West	County San Juan	
Actual Postage Location of Well: 850 feet from the South line and 1500 feet from the West line					
Ground Level Elev. 5300	Producing Formation <i>Alto</i>		Pool <i>Antelope</i>		Dedicated Acreage: 40 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
There is only one lease
3. If more than one lease of different ownership is dedicated to the well, have the interests 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 interests, has been approved by the Commission.



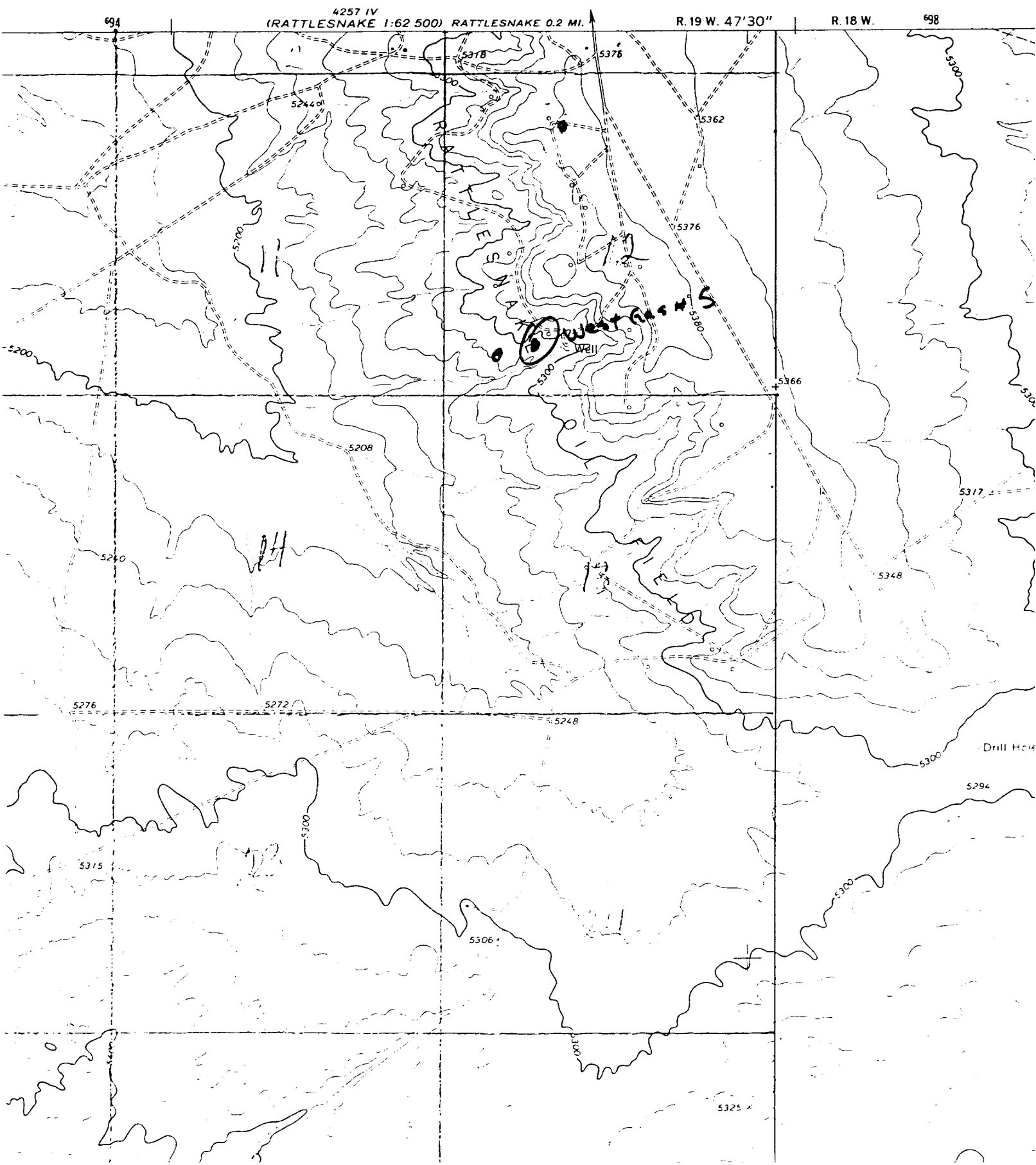
CERTIFICATION

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

Name
E.V. Echohawk
Position
Reg. Prof. Eng.
Company
West Gas Inc
Date
3-27-78

STATE OF NEW MEXICO
REGISTERED LAND SURVEYOR
Reg. No. **3602**
I hereby certify that the location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same are true and correct to the best of my knowledge and belief.
E.V. ECHOHAWK

Date Surveyed
February 21, 1978
Registered Professional Engineer and/or Land Surveyor
E.V. Echohawk
Certificate No. **3602**
E.V. Echohawk LS



4257 IV
(RATTLESNAKE 1:62 500) RATTLESNAKE 0.2 MI.

R. 19 W. 47' 30''

R. 18 W.

E
S
N

12

24

21

Well

Drill Hole

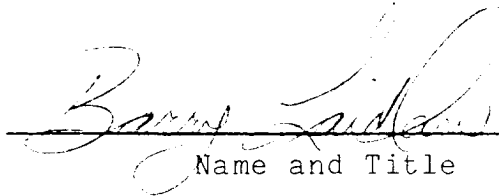
Rattlesnake Development
West Gas, Inc.
Sec. 2 & 12, T29N, R19W

CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route, that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by West Gas, Inc., and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

March 3, 1978

Date

 Opr. Mgr.
Name and Title

West Gas, Inc.'s Representative:

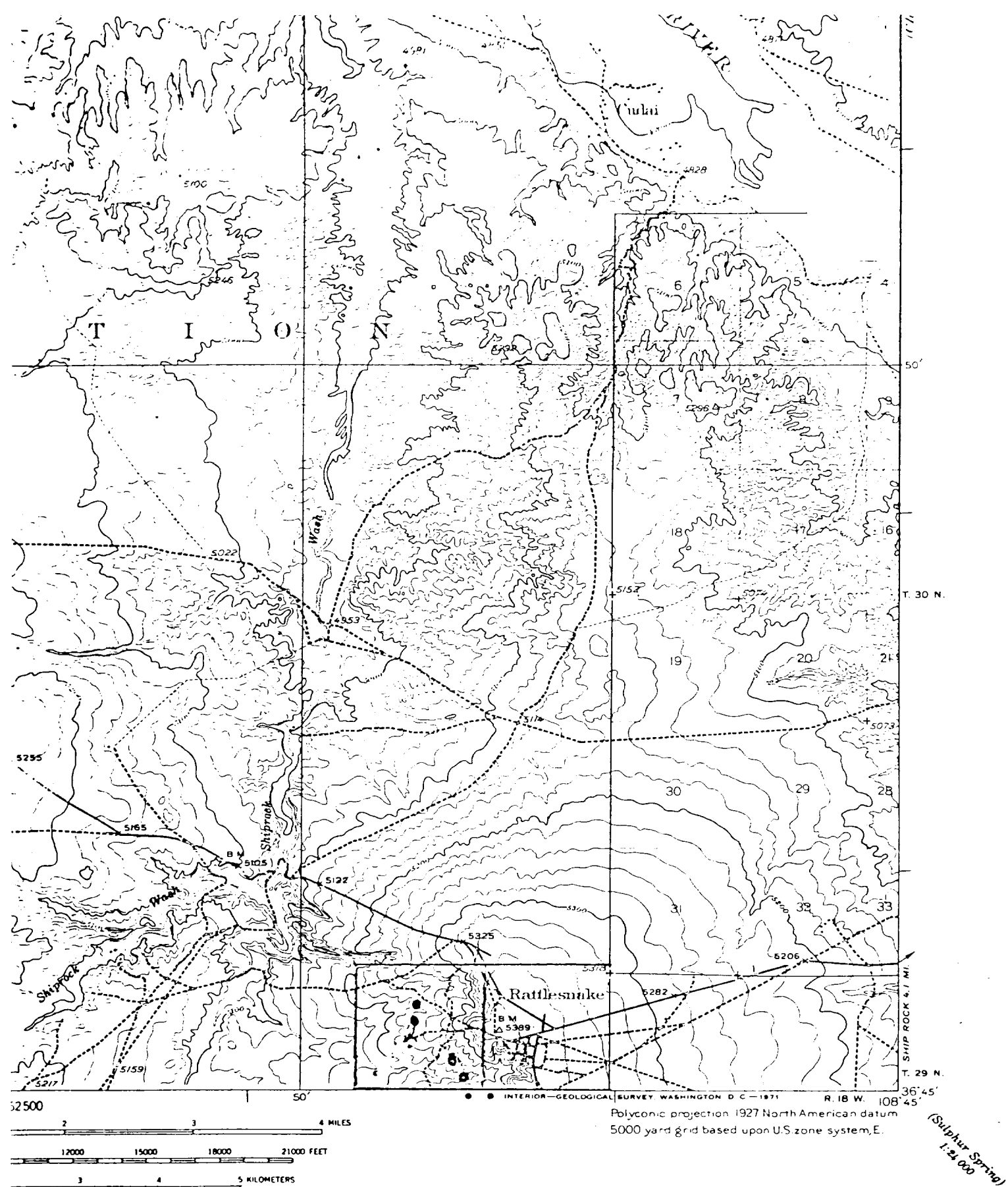
B. D. Laidlaw

Phone: Office: 406-252-6387; Home: 505-327-5221

Address: 2013 N. Tucker
Farmington, New Mexico 87401

And:

Suite 350, Rocky Village
1500 Poly Drive
Billings, Montana 59102



RATTLESNAKE, N MEX-COLO

N3645—W10845/15

1934

COLORADO 80225 OR WASHINGTON, D. C. 20242
AND SYMBOLS IS AVAILABLE ON REQUEST

WEST GAS INCORPORATED
Suite 350, Rocky Village
1500 Poly Drive
Billings, Montana 59102
(406) 252-6387

Development Plan for Wells in
Rattlesnake Field
Sec. 2 & 12, T29N, R19W

The proposed locations are covered with very little sage brush and no grass. The soil is sand. The geological name of the surface formation is Manchos. No access roads should be necessary as there are trails or roads to the drill sites.

No water is going to be hauled, the wells shall be air drilled. All dust shall be contained in the pit and at the completion of each well, it shall be buried not less than 36" below the surface and the lease restored to its original terrain.

The estimated tops of important Geological formations are as follows:

<u>Formation</u>	<u>Depth</u>
Gallup	300'
Dakota	800'

The casing program to be used will include new casing.

Est. Depth	Csg. Size	Weight	Hole Size	Sacks	Type
30'	7"	23#	9-7/8"	20	cls.B.
800'	4 1/2"	9.5#	6-1/4"	150	cls.B.

West Gas shall use a Schaffer, 6"x900 series, rotating head for blowout control with seal rubbers and 3" valves for control.

The logging program will consist of Induction Electric Surveys from TD to 50' and a Formation Density and Neutron log from TD to 50'.

Continued.

Because of the partially depleted Dakota section, West Gas does not expect any abnormal pressures or temperatures. Prior exploration has indicated there is no presence of Hydrogen Sulfide Gas.

There are no air strips in the area, or camps.

The tank batteries to be used are existing ones lying in Section 2 approximately 2300 FSL and 330 FEL.

We would like to begin operations as soon as the well is permitted and a one week per well program is anticipated making a seven week program.

