

S. & R.
SALES & SERVICE

TEMPERATURE SURVEY

COMPANY NORTH WEST PIPELINE CORP.
WELL 23 LEASE A. SALINAS 32-1-171
COUNTY San Juan STATE New Mexico
SEC. G-25 TWP. 32 RGE. 8
APPROX. TOP CEMENT 2000'
Survey Begins at 1500' Ft. Ends at 4017' Ft.
Approx. Fill-Up _____ Max. Temp. _____
Log Measured From K Run No. 1

Casing Size	Casing Depth	Diam of Hole	Depth
<u>2 7/8"</u> from	<u>to 1017'</u>	<u>3 1/4"</u> from	<u>to 4017'</u>
from	to	from	to

Date of Cementing 10-10-70 Time 1:00 PM
Date of Survey 1-1-71 Time 8:00 AM
Amount of Cement As Per Report
Recorded by Wilson L. Bailey Witnessed by _____
REMARKS OR OTHER DATA

NOV 18 1970
OIL CON. COM.
DIST. 3

TEMPERATURE IN DEGREES FAHRENHEIT

The graph displays temperature data from a well. The vertical axis represents depth in feet, ranging from 1500' to 3800' in 100-foot increments. The horizontal axis represents temperature in degrees Fahrenheit, ranging from 60 to 140 in increments of 20. Two temperature curves are plotted. The first curve starts at approximately 75°F at 1500' depth and remains relatively stable until about 2050', where it begins to rise, reaching approximately 125°F at 3800' depth. The second curve starts at approximately 85°F at 1500' depth, remains stable until about 2800', and then rises to approximately 135°F at 3800' depth. A handwritten note 'ANOMOLY 2050'' is placed near the first curve at the 2050' depth mark.

Depth (ft)	Temperature (°F) - Curve 1	Temperature (°F) - Curve 2
1500	75	85
1600	75	85
1700	75	85
1800	75	85
1900	75	85
2000	75	85
2100	75	85
2200	75	85
2300	75	85
2400	75	85
2500	75	85
2600	75	85
2700	75	85
2800	75	85
2900	75	85
3000	75	85
3100	75	85
3200	75	85
3300	75	85
3400	75	85
3500	75	85
3600	75	85
3700	75	85
3800	125	135

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TEMPERATURE SURVEY

COMPANY.....NORTHWEST PIPELINE CORP.
WELL.....LEASE A. SA. 2A 22-100
COUNTY.....Saginaw **STATE**.....Michigan
SEC. G-25 **TWP.** 32 **RGE.** 8

APPROX. TOP CEMENT.....2017'

Survey Begins at 170' **Ft. Ends at** 417' **Ft.**
Approx. Fill-Up.....**Max. Temp.**.....
Log Measured From.....K.....**Run No.**.....1

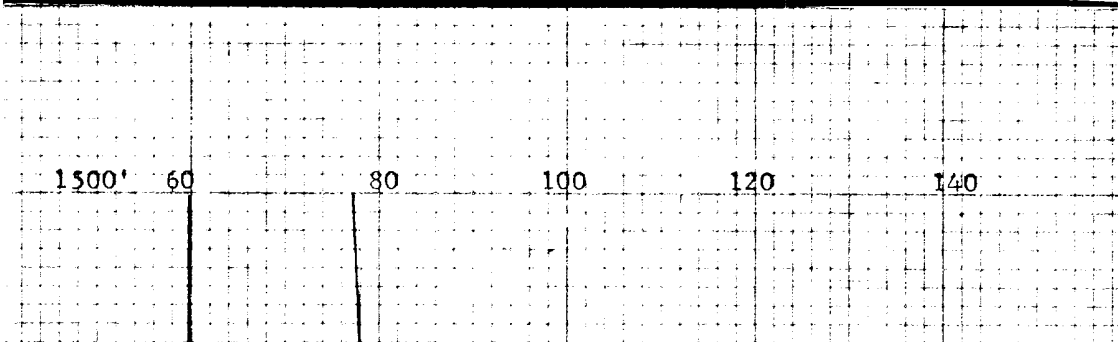
Casing Size	Casing Depth	Diam of Hole	Depth
2 7/8" from	to 417'	2 7/8" from	to 417'
from	to	from	to

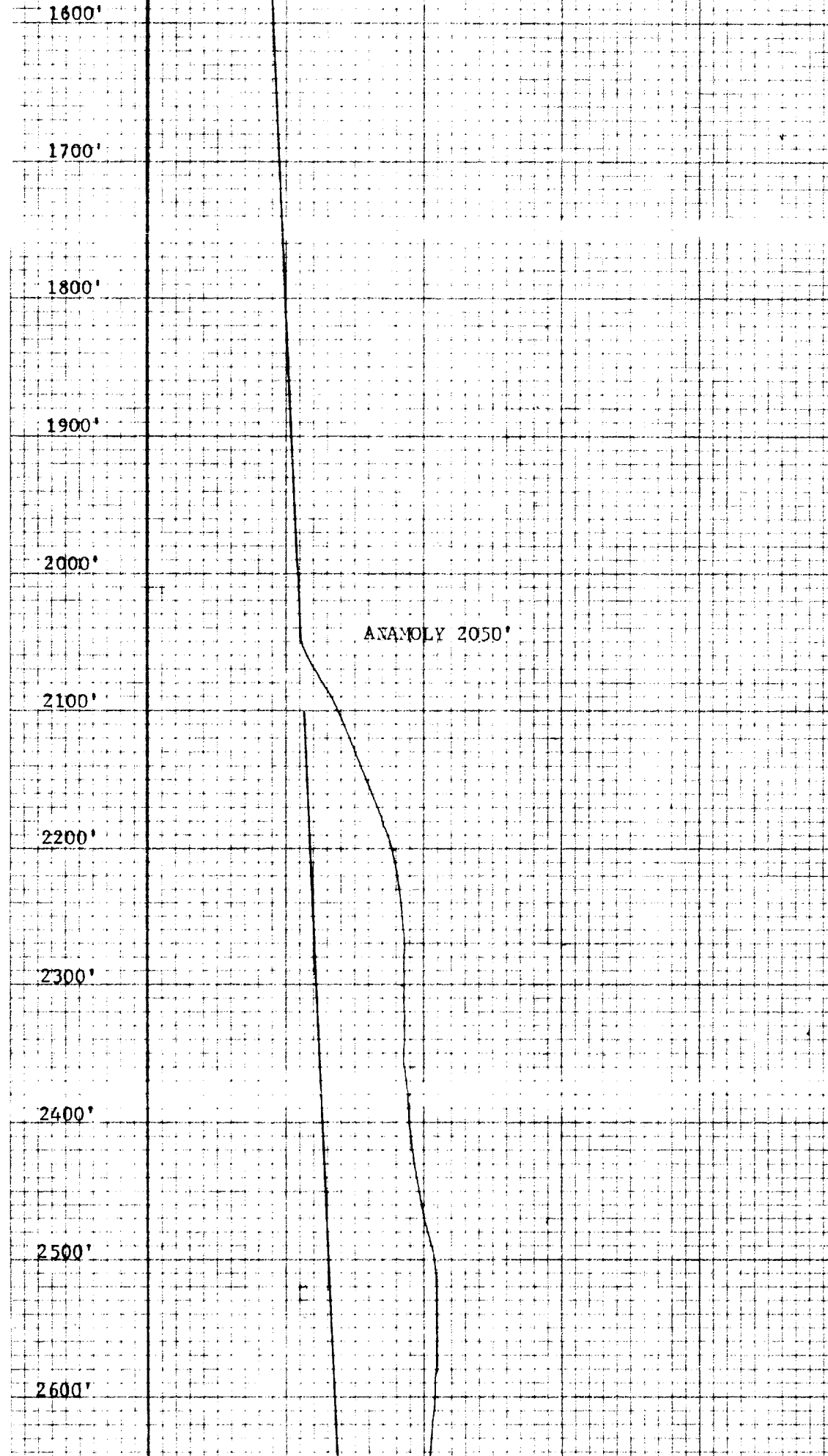
Date of Cementing 1-1-77 **Time** 1:00 PM
Date of Survey 1-1-77 **Time** 1:00 AM
Amount of Cement.....As Per Order

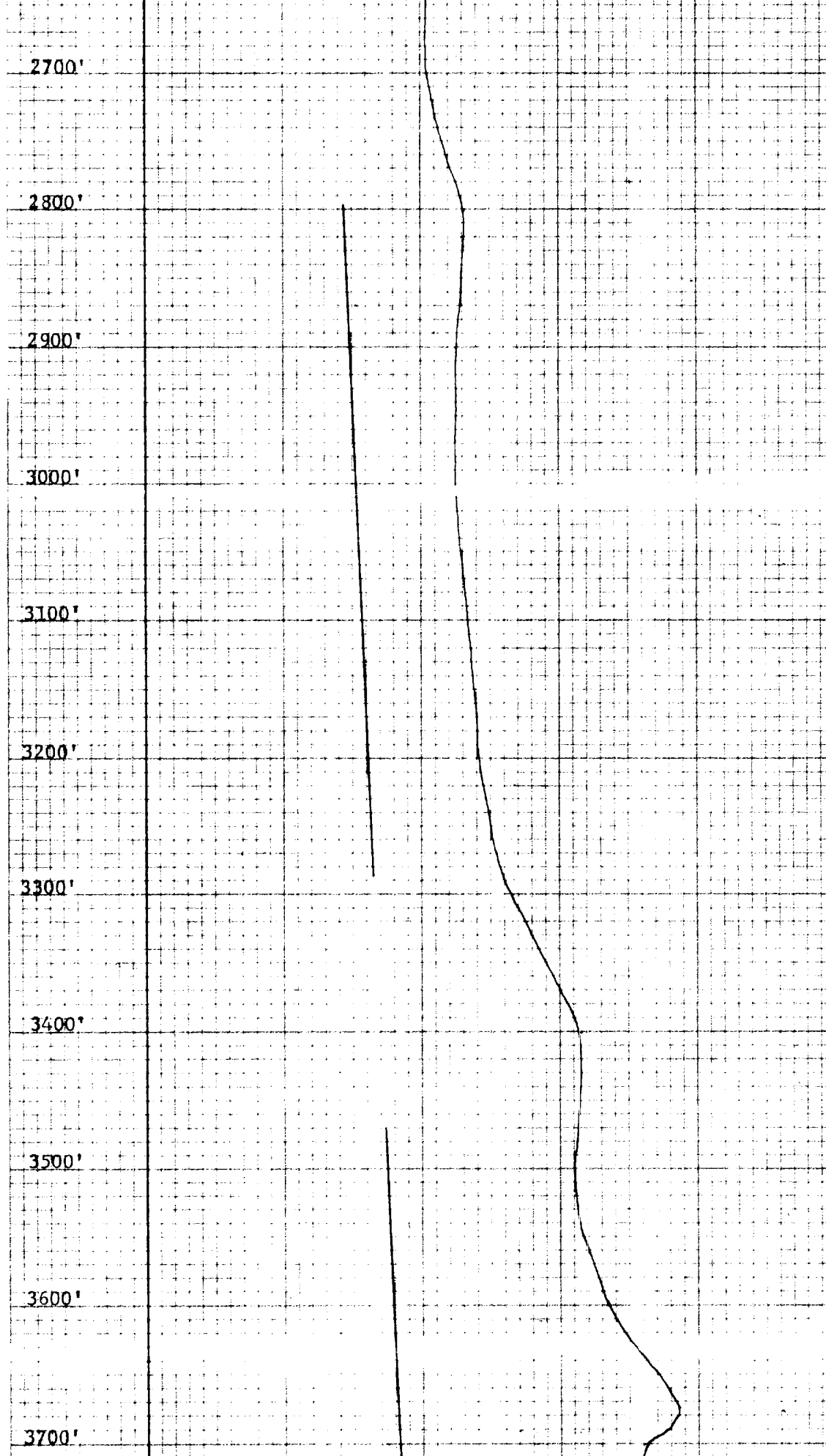
Recorded by W. J. J. J. **Witnessed by**.....

REMARKS OR OTHER DATA

TEMPERATURE IN DEGREES FAHRENHEIT







3800'

3900'

4000'

T D SURVEYED 4017'

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

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

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

Operator PHILLIPS PETROLEUM COMPANY			Lease San Juan 32-8 Unit		Well No. 36
Unit Letter G	Section 25	Township 32N	Range 8W	County San Juan	

Actual Footage Location of Well:
1640 feet from the **North** line and **1710** feet from the **East** line

Ground Level Elev: 7003	Producing Formation Pictured Cliffs	Pool Albino EXT	Dedicated Acreage: 160 Acres
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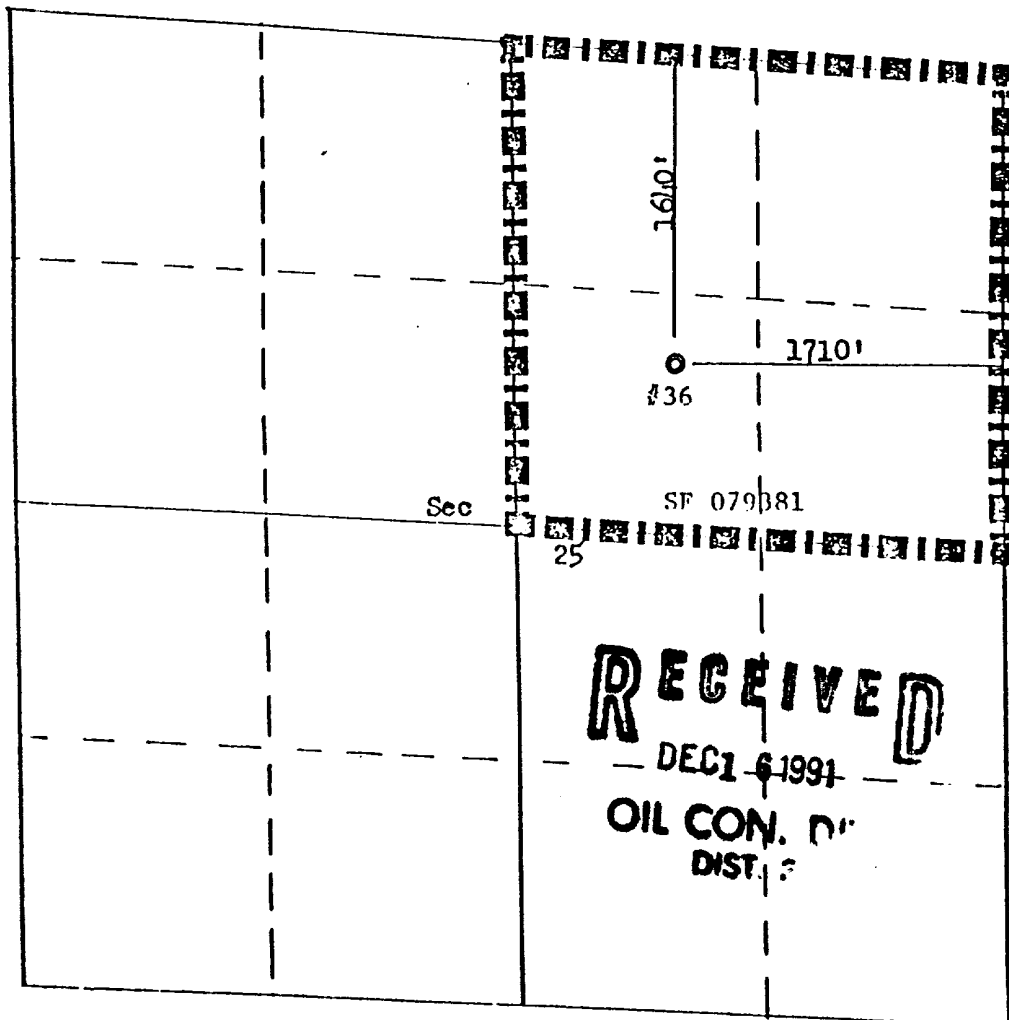
1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is 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.

FIVED
AUG 20 1976
OIL COM
LIST 3



CERTIFICATION	
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.	
<i>L. E. Robinson</i> Name L. E. Robinson	
Position Sr. Drlg. & Prod. Engr.	
Company Phillips Petroleum Company	
Date December 13, 1991	
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 July 27, 1976	
Registered Professional Engineer and Land Surveyor <i>Fred B. Kerr Jr.</i> Fred B. Kerr Jr.	
Certificate No. 3950	

SEE REVERSE SIDE FOR TOPS

Ojo Alamo Ss	2666'
Kirtland Sh	2745'
Fruitland Fm	3393'
Fruitland Coal	3540'
Pictured Cliffs (Upper)	3744'
Pictured Cliffs (Lower)	3869'

2666' 2745' 3393' 3540' 3744' 3869'