

15-175-20994-0000

SIDE ONE

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION OR RECOMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

API NO. 15-.....15-175-20,994-0000.....

County.....SEWARD.....

N $\frac{1}{2}$ SW NE Sec. 28 Twp. 33 Rge. 33 East
..... West

Operator: License # 8685
Name Wm Gruenerwald & Assoc. INC. ✓
Address Antlers Plaza Box 909
..... Colorado Springs Colo.
City/State/Zip 80901

3652
1937 ✓ Ft North from Southeast Corner of Section
..... Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

Purchaser..... Coastal States Trading
..... Houston, Texas 77046

Lease Name..... PRIEFERT Well #..... 1

Field Name..... HOUGHTON *Evaluat - Condit*

Operator Contact Person W. F. McKeen
Phone (316) 624-7138

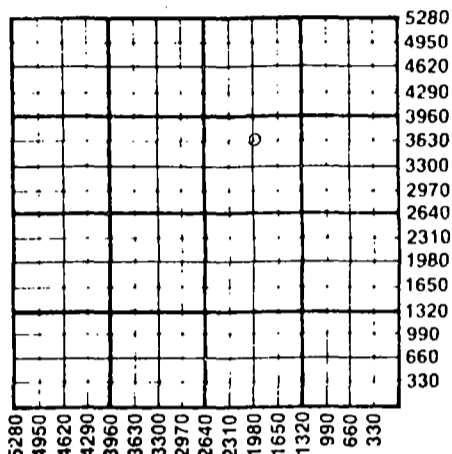
Producing Formation..... ST LOUIS

Elevation: Ground..... 2814 KB..... *R8 R6*

Contractor: License # 5987
Name Service Drilling Co.

Wellsite Geologist..... T. G. Wright
Phone..... (316) 265-3483

Section Plat



Designate Type of Completion
 New Well Re-Entry Workover
 Oil SWD Temp Abd
 Gas Inj Delayed Comp.
 Dry Other (Core, Water Supply etc.)

If OWWO: old well info as follows:
Operator
Well Name
Comp. Date Old Total Depth.....

WELL HISTORY

Drilling Method:
 Mud Rotary Air Rotary Cable
..... 12-31-87 1-11-88 3-20-88
Spud Date Date Reached TD Completion Date
..... 6450
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 1530 feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set.....feet
If alternate 2 completion, cement circulated
from.....feet depth to.....w/.....SX cmt
Cement Company Name
Invoice #

WATER SUPPLY INFORMATION
Disposition of Produced Water: Disposal
Docket # Repressuring

Questions on this portion of the ACO-1 call:
Water Resources Board (913) 296-3717

Source of Water:
Division of Water Resources Permit #.....
 Groundwater.....Ft North from Southeast Corner
(Well)Ft West from Southeast Corner of
Sec Twp Rge East West
 Surface Water.....Ft North from Southeast Corner
(Stream, pond etc).....Ft West from Southeast Corner
Sec Twp Rge East West
 Other (explain).....
(purchased from city, R.W.D. #)

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 apply.
Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form. See rule 82-3-107 for confidentiality in excess of 12 months.
One copy of all wireline logs and drillers time log shall be attached with this form. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature *Frank Broadfoot*
Title..... Agent Date ..6-29-88.....

Subscribed and sworn to before me this 29th day of June 1988
Notary Public..... *Betty Lorenz*

Date Commission Expires
BETTY LORENZ
Notary Public - State of Kansas
My Appt. Expires Jan. 26, 1992

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Drillers Timelog Received
Distribution
 KGS SWD/Rep NGPA
 KGS Plug Other
(Specify)
JUN 30 1988
CONSERVATION DIVISION
Wichita, Kansas
6-30-88 X

Sec 28 Twp 33 Rge 33

SIDE TWO

Operator Name Wm Gruenerwald & Associates Lease Name Priefert Well # 1

Sec. 28 Twp. 33S Rge. 33 East West County Seward

WELL LOG

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken Yes No
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No

Formation Description
 Log Sample

Name Top Bottom

SEE EXHIBIT "A" ATTACHED

SEE EXHIBIT "B"

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (in O.D.)	Weight Lbs/Ft.	Setting Depth	Type of Cement	#Sacks Used	Type and Percent Additives
SURFACE		8 5/8"	24	1530'	HLC-PREM	700	
PRODUCTION		4 1/2"	10	6450'	THIX SET	350	

PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record	
Shots Per Foot	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	Depth
4	6292 - 6304 ST LOUIS		

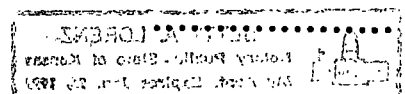
TUBING RECORD	Size	Set At	Packer at	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First Production	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (explain).....			
5-17-88	Oil	Gas	Water	Gas-Oil Ratio
Estimated Production Per 24 Hours	20	None	None	Gravity
	Bbls	MCF	Bbls	CFPB

METHOD OF COMPLETION

Production Interval

Disposition of gas: Vented Open Hole Perforation
 Sold Other (Specify)
 Used on Lease

Dually Completed
 Commingled



SERVICE DRILLING CO.

Priefert Well
Seward County, Kansas.

DRILLING COMMENCED: 12/31/87

DRILLING COMPLETED: 1/12/88

DRILLING LOG

12/31/87	100 - 435	Surface
1/01/88	435 - 1142	No formation shown
1/02/88	1142 - 2210	Reds, Anhy
1/03/88	2210 - 2910	Reds, Anhy
1/04/88	2910 - 3599	Dolomite
1/05/88	3599 - 4315	Dolomite, Shale, Lime
1/06/88	4315 - 4820	Shale, Lime
1/07/88	4820 - 5135	Shale, Lime
1/08/88	5135 - 5470	Shale, Lime
1/09/88	5470 - 5932	Shale, Lime
1/10/88	5932 - 6270	Shale, Lime
1/11/88	6270 - TD	Shale, Lime
1/12/88	6450 - TD	No formation shown

CASING RECORD

1/01/88	Ran 3 ⁹ joints of 8 5/8" casing, cemented with 500 sacks of H.L.C., tailed with 200 sacks of Premium.	24#
1/12/88	Ran 150 joints of 4 1/2" casing, cemented with 350 sacks of Thix set.	10.72

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STATE CORPORATION

JUN 30 1988

CONSERVATION DIVISION
Wichita, Kansas

ORIGINAL INVOICE

INVOICE

RECEIVED JAN 25 1988



REMIT TO:
P.O. BOX 651046
DALLAS, TX 75265

INVOICE NO.	DATE
585321	01/12/1988

WELL LEASE NO.	WELL LOCATION	STATE	WELL OWNER
PRIEFERT 1	SEWARD	KS	SAME
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET DATE
LIBERAL	SERVICE DRLG	CEMENT PRODUCTION CASING	01/12/1988
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER
346550	W F MCKEEN		
			SHIPPED VIA
			COMPANY TRUCK
			FILE NO.
			52428

WILLIAM GRUENERWALD & ASSOC
P O BOX 909
COLORADO SPRINGS, CO 80901

DIRECT CORRESPONDENCE TO:
SUITE 600
COLORADO DERBY BUILDING
WICHITA, KS 67202-0000

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
000-117	MILEAGE	9	MI	2.10	18.90
		1	UNT		
001-016	CEMENTING CASING PUMP CHARGE	6450	FT	1,255.00	1,255.00
		1	UNT		
030-016	TYPE 5W ALUMINUM PLUG-TOP	4.5	IN	31.00	31.00
		1	EA		
12A	GUIDE SHOE - 4 1/2" 8RD THD.	1	EA	83.00	83.00
825.201					
24A	INSERT FLOAT VALVE - 4 1/2"	1	EA	69.00	69.00
815.19101					
27	FILL-UP UNIT 4 1/2"-5"	1	EA	27.50	27.50
815.19111					
40	CENTRALIZER 4-1/2" MODEL S-4	5	EA	41.00	205.00
807.93004					
350	HALLIBURTON WELD-A	2	LB	11.00	22.00
890.10802					
018-317	SUPER FLUSH	500	GAL	1.50	750.00
314-153	POTASSIUM CHLORIDE	200	LB	34.00	34.00
504-043	PREMIUM CEMENT	350	SK	6.85	2,397.50
508-291	GILSONITE	1750	LB	.33	577.50
508-002	POTASSIUM CHLORIDE	700	LB	119.00	119.00
314-153					
508-101	THIXSET COMPONENT A	330	LB	4.35	1,435.50
508-103	THIXSET COMPONENT B	82	LB	5.60	459.20
500-207	BULK SERVICE CHARGE	385	CFT	.95	365.75
500-306	MILEAGE	357.62	TMI	.70	250.33
	INVOICE SUBTOTAL				8,100.18
	DISCOUNT-(BID)				1,214.99-
	INVOICE BID AMOUNT				6,885.19

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Wichita, Kansas

***** CONTINUED ON NEXT PAGE *****

TERMS INVOICES PAYABLE NET BY THE 20TH OF THE FOLLOWING MONTH AFTER DATE OF INVOICE. UPON CUSTOMER'S DEFAULT IN PAYMENT OF CUSTOMER'S ACCOUNT BY THE LAST DAY OF THE MONTH FOLLOWING THE MONTH IN WHICH THE INVOICE IS DATED, CUSTOMER AGREES TO PAY INTEREST THEREON AFTER DEFAULT AT THE HIGHEST LAWFUL CONTRACT RATE APPLICABLE BUT NEVER TO EXCEED 18% PER ANNUM. IN THE EVENT IT BECOMES NECESSARY TO EMPLOY AN ATTORNEY TO ENFORCE COLLECTION OF SAID ACCOUNT, CUSTOMER AGREES TO PAY ALL COLLECTION COSTS AND ATTORNEY FEES IN THE AMOUNT OF 20% OF THE AMOUNT OF THE UNPAID ACCOUNT.

XXXXXX
XXXXXXXXXXXXXXXXXXXX
XXXXXX 624-1864

HOME
1039 N. SHERMAN
(316) 624-7138

W. F. 'Bill' McKeen

OIL & GAS CONSULTANT
LIBERAL, KANSAS 67901

January 27, 1988

EXHIBIT "A"

Wm. Gruenerwald & Assoc., Inc.
P. O. Box 909
Colorado Springs, CO. 80901

Re: Priefert No. 1
Sec. 28-T33-R33
Seward County, Kansas

Dear Sir:

Following is a report on Priefert No. 1 Well:

- 1-1-88 8-5/8" casing @ 1530'
- 1-11-88 Schlumberger ran logs.
- 1-12-88 4½" csg.; cemented @ 6450'.
- 1-22-88 Luck repaired road, leveled location, filled cellar.
- 1-23-88 Welded slip collar on 4½" csg.
- 1-25-88 Schlumberger ran bond log, Gamma, collar locator.
- 1-27-88 Set deadman for Service Unit.

Very truly yours,



W. F. McKeen

WFM:pm

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W. F. 'Bill' McKeen

OIL & GAS CONSULTANT
LIBERAL, KANSAS 67901

March 23, 1988

Wm. Gruenerwald & Assoc., Inc.
P. O. Box 909
Colorado Springs, CO. 80901

Re: Priefert No. 1
Sec. 28 - TWP 33 - RGE 33
Seward County, Kansas

Dear Sir:

This is a completion report on your Priefert No. 1 Well.

Feb. 3, 1988 Dunnam Drilling Co. rigged up. Casing swabbed dry. Nichols put 16 bbls. KCL #2 water in hole.

Feb. 4 & 5 N. C.

Feb. 6, 1988 Rig swabbed out KCL treated water. Tested well dry. Schlumberger perforated well from 6260 - 6268' with 4 shots per foot.

Feb. 7, 1988 Shut in pressure after 13 hours, 50#. HOWCO rigged up to acidize well w/1000 gals. 15% MCA. Formation broke at 2200#. Acid went in @ 6.5 BPM @ 270#. Instant S.I. - vacuum. Rig swabbed hole.

Feb. 8, 1988 After 14 hrs., 200# on surface. Swabbed 6 bbls. oil @ 10:00 a.m. Swabbed 1 bbl. oil and treated water, 120 bbls. to recover. After 88 bbls., 80% water, little gas.

Feb. 9, 1988 After 16 hrs. S.I. pressure was 125#; fluid level was @ 250' off bottom. 5:00 p.m., small gas show, no oil.

Feb. 10, 1988 After S.I. for 13 hrs., 125#. Rig swabbed down 4 bbls. wtr. Schlumberger set Baker Bridge Plug @ 5960' and perforated @ 5812'-5826', after putting 5 bbls. KCL wtr. Rig swabbed 300' KCL water. HOWCO acidized w/1000 gals. 15% MCA acid. Formation broke at 1200#, acid went in @ 550# at 6.25 BPM. Bell action good; 117 bbls. to recover.

Feb. 11, 1988 Swabbed well to bottom; no oil, gas too small to measure.

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Wichita, Kansas

Feb. 12, 1988 After 13 hrs. S.I. pressure, 800# gas. Rig lost tools in hole.

Feb. 13, 1988 Rig fished out tools. Swabbed 4 bbls. fluid, no oil.

Feb. 14, 1988 N. C.

Feb. 15, 1988 After 13 hrs. S.I., 760#. Rig swabbed down, no oil. Schlumberger rigged up and set plug at 5260'; put 5 bbls. KCL wtr. in hole. Rig swabbed dūt. Perforated section. Schlumberger perforated section at 5220' - 5230' w/1000 gals. 15% MCA acid. Formation broke @ 2500#, acid went in @ 4.4 bbls. per minute at 590# w/107' load to recover. Rig swabbed to bottom.

Feb. 16, 1988 After 13½ hrs., S.I. pressure 60#. 7 bbls. fill-up.

Feb. 17, 1988 S.I. after 13 hrs., 30#. Rig swabbed dry; no oil, no gas. Rig tore down.

Mar. 5, 1988 Moved double-triple rig on location. Pumped 20 bbls. KCL wtr. in hole. Ran Baker sand line drill; drilled out top bridge plug.

Mar. 6, 1988 Rig drilling on second bridge plug; getting balls--drilling on same. Sand line; bottom section parted.

Mar. 7, 1988 Blow down well. Ran sand pump and sand line drill. Frac balls blocking bridge plug. Rig changing sand line.

Mar. 8, 1988 Drilling on frac balls & plug.

Mar. 9, 1988 Dropped 8 bottles of Coke--hoping broken glass will cut frac balls.

Mar. 10, 1988 Drilling on last plug at 5960'.

Mar. 11, 1988 Rig knocked bridge plug to 6416'.

Mar. 12, 1988 Bad sand line -- N.C.

Mar. 13, 1988 Changing to new sand sand line -- N.C. Rig ran depthometer to 6416½'.

Mar. 14, 1988 Rig ran one 6' tbg. sub, one 1'-11" seating nipple, one 6' tbg. sub and 202 jts. 2-3/8" tbg. HUNG RTTS PACKER at 6285'. Bottom of tbg. @ 6292'.

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- Mar. 15, 1988 Schlumberger ran depth control log to check position of RTTS packer and bottom of tubing. Rig placed RTTS packer and bottom of tubing at above depths (6285' - 6292'); then perforated St. Louis section @ 6292' - 6304' w/4 shots per ft. Rig swabbed tubing, then acidized well w/1500 gals. MCA and additives. Formation broke @ 2020' w/940#. Went in @ 4.5 BPM @ 500#. Vacuum after 2 minutes. Finished @ 3:10 p.m. Rig began swabbing, swabbed to 6:30 p.m. -- 62 bbls. recovered, 10% oil, show of gas.
- Mar. 16, 1988 Pressure after 12 hrs, 575# on csg., 70# on tbg. at noon. Rig had swabbed 88 bbls, 90% oil, 3 bbls. per hr. Rig off @ 3:00 p.m. w/fluid @ 5400' down. 2 to 3 bbls. per hr. - 90% oil. Bled csg. off.
- Mar. 17, 1988 After 16 hrs., csg. 0#, tbg. 140#; fluid @ 5000'. At 3:00 p.m. rig had recovered 122 bbls.; fluid @ 4900' - 90% oil, average 3 BPH.
- Mar. 18, 1988 After 12 hrs. tubing pressure 235#; fluid @ 4700'. Swabbed hole; released RTTS packer. Pulled tbg.; ran 202 joints tbg. w/31.50' mud anchor bull plug; 1.11' S.N. w/R-4 HOWCO packer and set @ 6158' with 22,000# in tension.
- Mar. 19, 1988 After 12 hrs. tbg. pressure 300#; fluid @ 2800'. Swab test 4 BPH, 90% oil. Rig released.

Very truly yours,

W. F. McKeen

W. F. McKeen

WFM:pm

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CONSUMER DIVISION
Wichita, Kansas

T. G. WRIGHT
Consulting Geologist
940 SPAULDING
WICHITA, KANSAS 67203

January 18, 1988

EXHIBIT "B"

GEOLOGICAL WELL REPORT

William Gruenerwald & Associates,
Inc., #1 Priefert, C SW NE
Section 28-T33S-R33W, Evalyn Pool,
Seward County, Kansas
Spud: December 31, 1987
Surface Casing: 8 5/8" @ 1560'
Rotary Total Depth: 6450'
Electric Log TD 6461'
Rotary Completion January 11, 1988

William G. Gruenerwald & Associates, Inc.
P. O. Box 909
Colorado Springs, Colorado

Gentlemen:

Listed below are the pertinent geological tops, an evaluation of the porosities encountered. No tests were run on the well.

I arrived at the location at a depth of 6450' TD and witnessed the electric log program. Samples were examined from 5800-5860, 6240-6270, 6350-6390. Sample quality was poor, the set had several skips, consequently very little value. The hole was logged electrically at rotary TD 6450' and recorded a TD 6461'

Enclosed herewith is a copy of the plotted drilling time log from 5400' to 6450' TD which also included lithology and tops.

ELECTRIC LOG TOPS

ELEVATION	2826 KB
MORROW SHALE	5621 (-2795)
LOWER MORROW SAND	5810-29

Electric log records porous sandstone 5813-28. Samples show scattered fine, clustered, clean sandstone with possible good oil staining.

MISSISSIPPIAN

CHESTER	5829 (-3003)
---------	--------------

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Wichita, Kansas

STE. GENEVIEVE 6182 (-3356)

ST. LOUIS 6266 (-3440)

6292-99 and 6300-04 Electric log porosity is recorded at 6% porosity and 47 to 49% water.

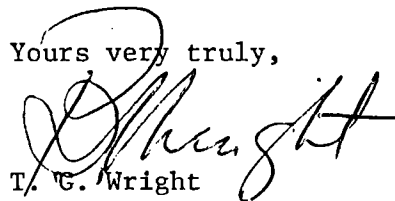
TOTAL DEPTH 6450 Rotary
6461 Electric Log

CONCLUSIONS AND RECOMMENDATIONS

Since the samples on this well are of little value, the zones of interest must be judged from the electric log.

It is recommended that the hole be cased and the St. Louis zone tested first, followed by the more optimistic Morrow Sand section 5813-28.

Yours very truly,



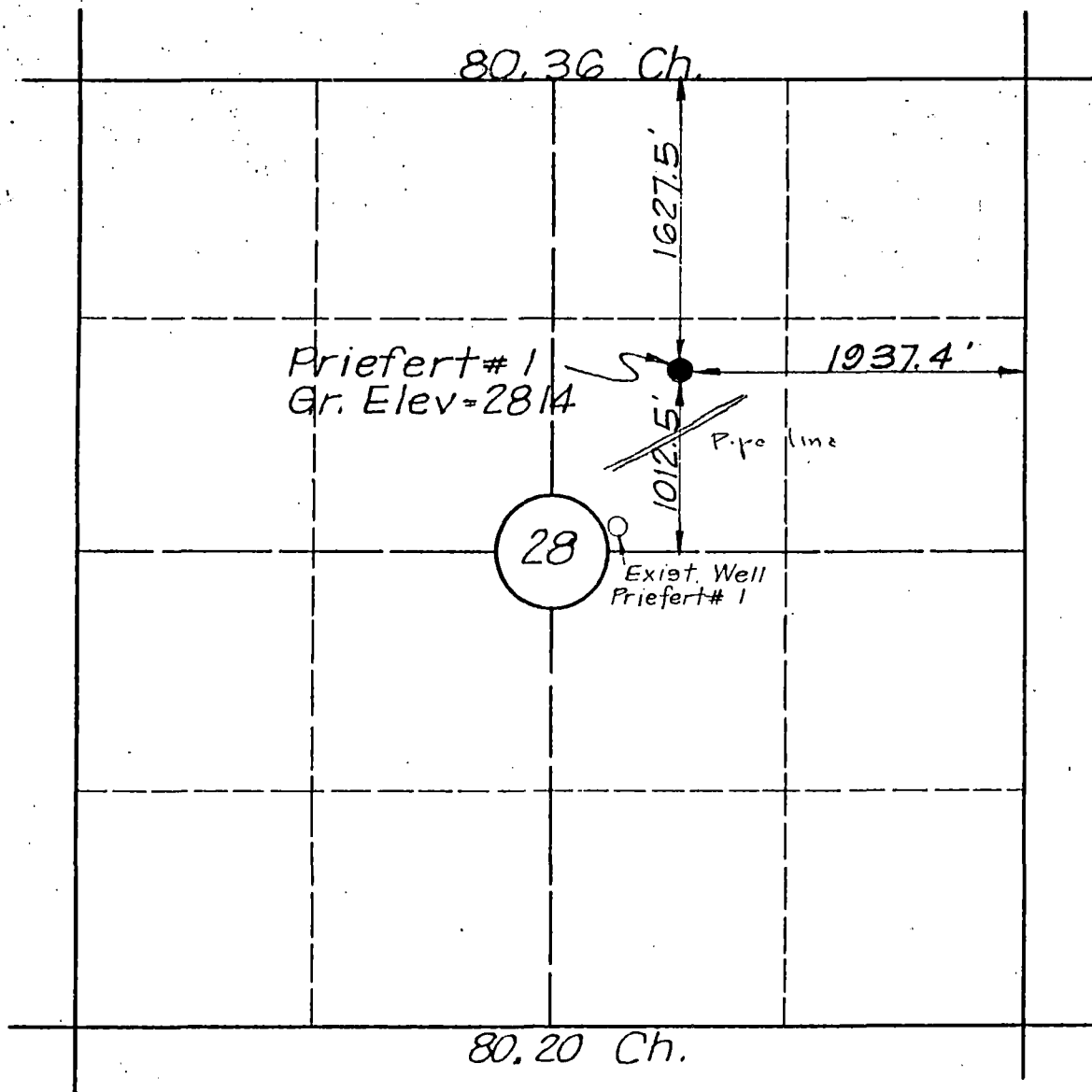
T. G. Wright

TGW:bg

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Wichita, Kansas



SCALE:
1" = 1000'

WELL DESCRIPTION

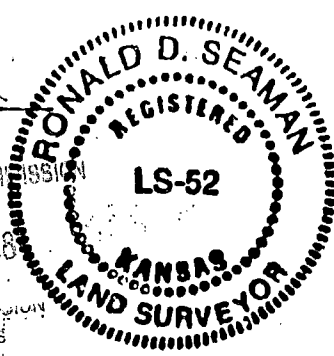
PRIEFERT # 1 -- 1937.4 feet from the East Line and 1627.5 feet from the North Line of Section Twenty-eight (28), Township Thirty-three South (T33S), Range Thirty-three West (R33W) of the Sixth Principal Meridian, Seward County, Kansas.

I, Ronald D. Seaman, a Registered Land Surveyor in the State of Kansas, do hereby certify that the survey as shown hereon was completed under my supervision on the 4th day of January, 1988, and is true and correct to the best of my knowledge.

Ronald D. Seaman
Ronald D. Seaman, L.S.

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JUN 30 1988

Wichita, Kansas



REV. NO.	DATE	REVISION	BY
1	1/4/87	Relocate Well Site	R.D.S.
GRUENERWALD & ASSOC. PRIEFERT #1 Sec. 28-T33S-R33W Seward County, Kansas			
NIXON & SEAMAN ENGINEERS BOX 81 LIBERAL, KANSAS		DATE: 1/4/87 DRAWN BY: WRL DRWG. NO 1387 SHEET NO. 1 OF 1	