

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. 15-109-20,473-0000 SEP 25 1990

County Logan FROM CONFIDENTIAL

NE SW NW Sec 20 Twp 12S Rge 33W XX West

3630 Ft North from Southeast Corner of Section
4290 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

Lease Name BERTRAND Well # 1

Field Name N/A

Producing Formation Johnson

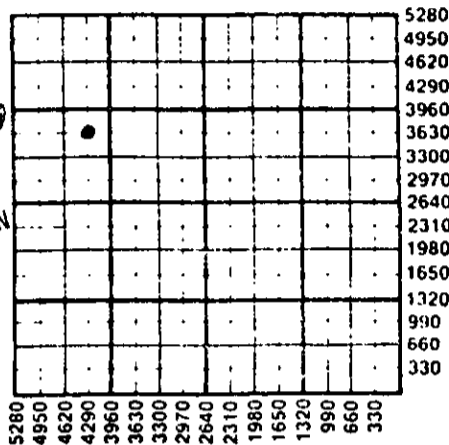
Elevation: Ground 3161 KB 3168

KANSAS GEOLOGICAL SURVEY Section Plat

WICHITA BRANCH

MAY 18 1989

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STATE CORPORATION COMMISSION
5-15-89
MAY 15 1989
CONSERVATION DIVISION
Wichita, Kansas



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 # 38167

X Groundwater Ft North from Southeast Corner
(Well) Ft West from Southeast Corner of
S/2 Sec 2 Twp 12S Rge 33W East X 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. #)

Operator: License # 5886
Name Chief Drilling Co., Inc.
Address 224 E. Douglas, #350
City/State/Zip Wichita, KS 67202

Purchaser Koch

Operator Contact Person Douglas W. Thimesch
Phone 316 262-3791

Contractor: License # 5883
Name Warrior Drilling Co.

Wellsite Geologist Ron Dulos
Phone 316 267-7270

Designate Type of Completion
X New Well Re-Entry Workover

X Oil SWD Temp Ab
Gas Inj Delayed Comp.
Dry Other (Core, Water Supply etc.)

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

WELL HISTORY

Drilling Method: X Mud Rotary Air Rotary Cable

4-1-89 4-11-89 4-25-89
Spud Date Date Reached TD Completion Date

4770 4755
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 364 feet
Multiple Stage Cementing Collar Used? Yes X No
If yes, show depth set DNA feet
If alternate 2 completion, cement circulated
from 2630 feet depth to 175 w/ 400 cmt
Cement Company Name Allied Cementing Co.
Invoice # 53861

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 Douglas W. Thimesch
Title Vice President/Exploration Date 4-28-89

Subscribed and sworn to before me this 28 day of April 1989.
Notary Public Betty M. Abbott

Date Commission Expires January 22, 1991

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Drillers Timelog Received
Distribution
KCC SWD/Rep NGPA
KGS Plug Other (Specify)



Sec 20 Twp 12S Rge 33W

P1

Operator Name Chief Drilling Co., Inc. Lease Name Bertrand Well # 1

Sec. 20 Twp. 12S Rge. 33W East West County Logan

RELEASED

SEP 25 1990

WELL LOG

FROM CONFIDENTIAL

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 [X] Yes [] No
Samples Sent to Geological Survey [] Yes [X] No
Cores Taken [] Yes [X] No

Formation Description [X] Log [X] Sample

Name Top Bottom

DST #1 4172-4200 (Lans 70) 30-30-60-45 Wk blo T/O, Rec.180' MW, chloride 57,000, SI 1246-1210#, IFP 44-44#, FFP 89-116#, HP 2077-203 Drlg. @ 4372'
DST #2 4244-4310 (Lans. 140,160) wk blo died 25", 30-30-30-30 Rec. 30' O spotted M, BHP 1210-1028# FF 44-44 44-44# HP 2169-2123#
DST #3 4302-4408 (Lans.180,200,220) 30-30-60-60, Stro blo off bottom 10", Rec.650'W, chlorides 68,000, BHP 1255-1255# FP 89-133, 178-267# HP 2169-2123# Drlg. @ 4554'
DST #4 4607-4720 (Johnson) Wk blo bldg to sto in 10", 30-30-60-60 Rec 140' OCM, 26% O, 74% M trace W, 660'MCO 91% O, 9% M, trace W, BHP 934-934#, FP 110-132 221-254# HP 2286-2232#

Table with 2 columns: FORMATION TOPS and ELECTRIC LOG TOPS. Lists various geological formations and their corresponding depths in feet.

CASING RECORD [X] New [] Used Report all strings set-conductor, surface, intermediate, production, etc.

Table with 8 columns: 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. Includes data for Surface and Production strings.

PERFORATION RECORD and Acid, Fracture, Shot, Cement Squeeze Record. Includes columns for Shots Per Foot, Footage of Each Interval Perforated, and material used.

TUBING RECORD Size 2 3/8 Set At 4747' Packer at none Liner Run [] Yes [] No

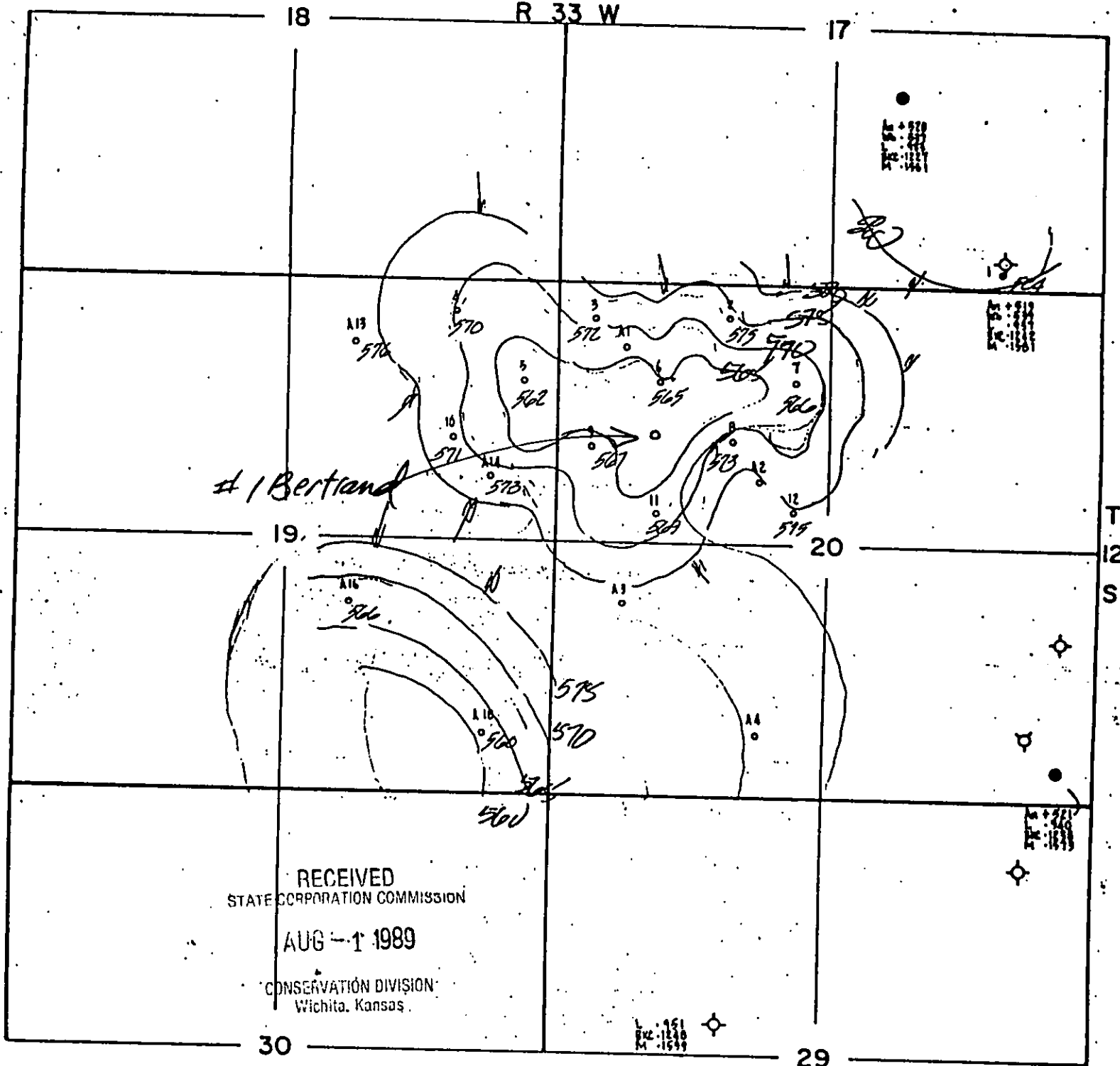
Date of First Production 4-28-89 Producing Method [] Flowing [X] Pumping [] Gas Lift [] Other (explain)

Table with 6 columns: Oil, Gas, Water, Gas-Oil Ratio, Gravity. Row for Estimated Production Per 24 Hours.

METHOD OF COMPLETION Production Interval

Disposition of gas: [X] Vented [] Sold [] Used on Lease [] Open Hole [X] Perforation [] Other (Specify) 4690-4694 4698-4702 [] Dually Completed [] Commingled X Single

15-109-20473-0000



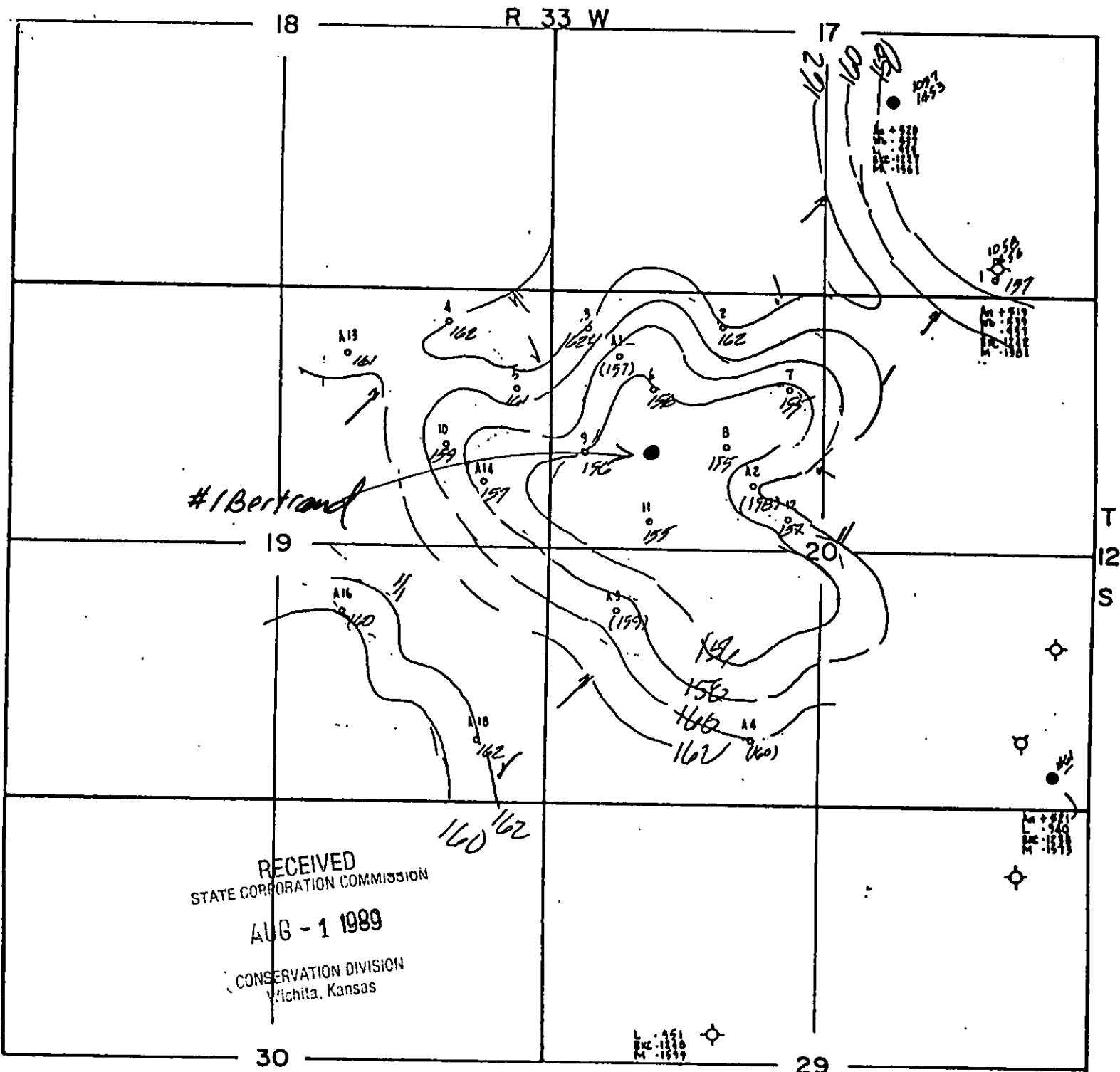
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 AUG -1 1989
 CONSERVATION DIVISION
 Wichita, Kansas.

A PTS = 118-23

SCALE	4" = 1 MILE	AREA	12-33 (1988)
DATUM PLANE	+3025	LOCATION	LOGAN COUNTY, KANSAS
V _g	2000 %	FOR	CHIEF DRILLING CO.
V _{wp}	7000 %	CONTOURED ON	ANHYDRITE
CONTRACT NUMBER	87-110	INTERVAL	.008 Sec. <i>TIME Structure</i>
Map No 07	MAPP	MAP SUBJECT TO REPORT QUALIFICATIONS	

GEOSEARCH, INC.
 Wichita, Kansas

15-109-20473-0000

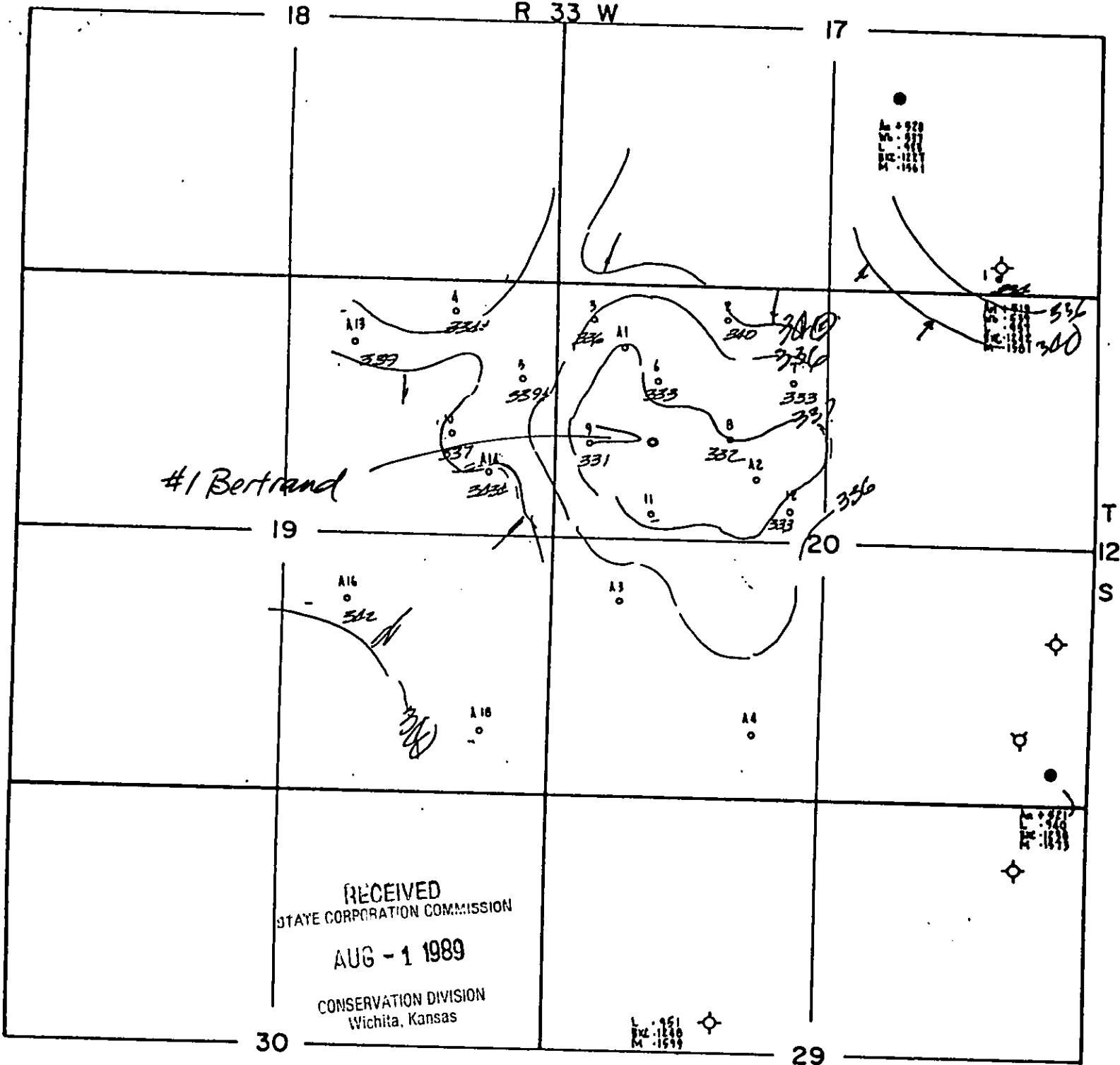


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Wichita, Kansas

A PTS = 118-25

SCALE	4" = 1 MILE	AREA	12-33 (1988)
DATUM PLANE	+3025	LOCATION	LOGAN COUNTY, KANSAS
V _g	2000 %	FOR	CHIEF DRILLING CO.
V _{av}	7000 %	CONTOURED ON	ALUMINITE - NEAR WA13 .002 Sec.
CONTRACT NUMBER	87-110	INTERVAL	
Map No of Maps	MAP SUBJECT TO REPORT QUALIFICATIONS		

GEOSEARCH, INC.
Wichita, Kansas



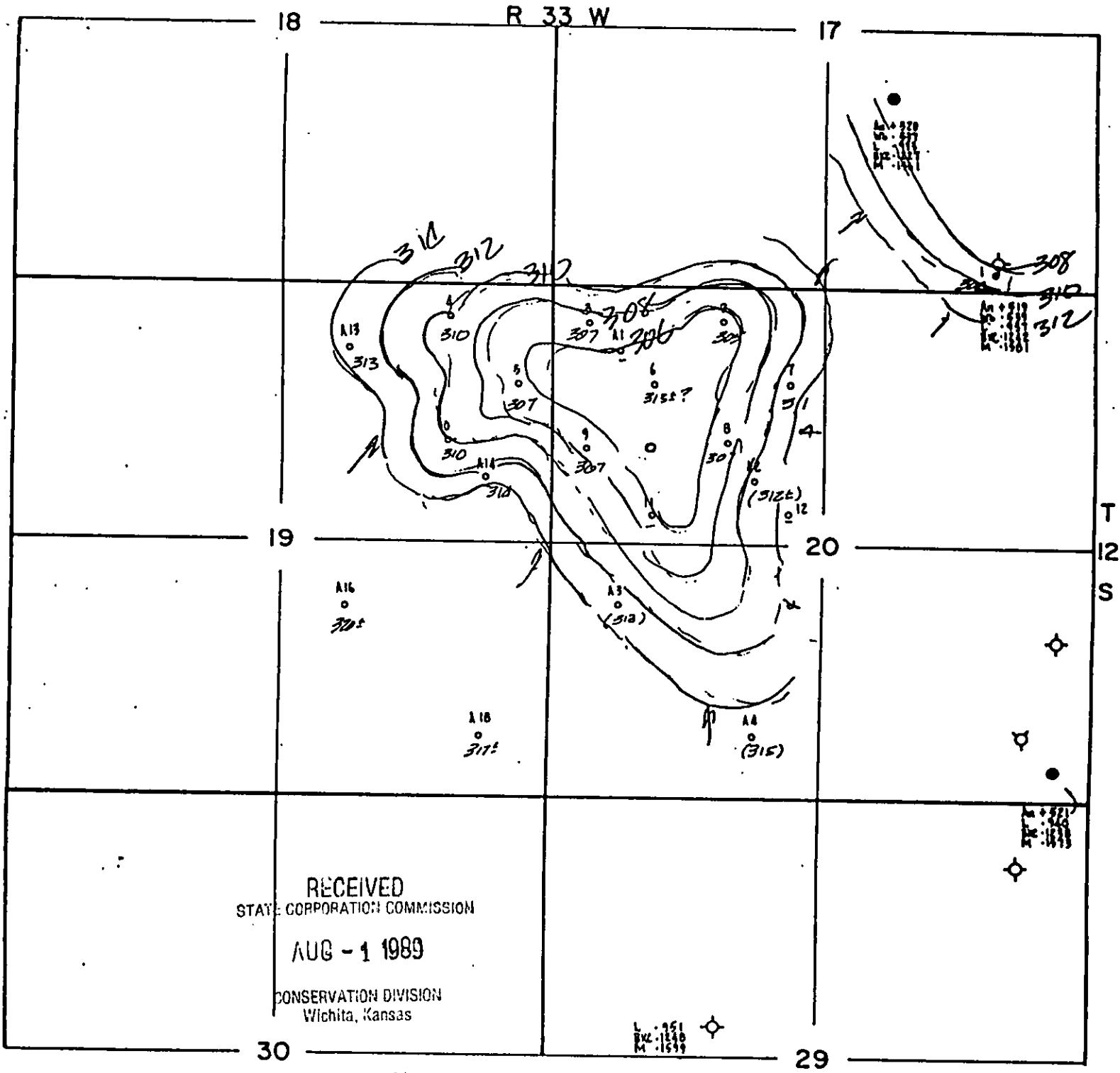
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CONSERVATION DIVISION
Wichita, Kansas

L. 961
Dec. 1840
M. 1699

A PTS = 110-25

SCALE	4" = 1 MILE	AREA	12-33 (1988)
DATUM PLANE	+3025	LOCATION	LOGAN COUNTY, KANSAS
V _w	2000 %.	FOR	CHIEF DRILLING CO.
V _{ss}	7000 %.	CONTOURED ON	Anhydrite - Base K.C.
CONTRACT NUMBER	87-110	INTERVAL	.002 SEC.
MAP NO. 01	M099		
MAP SUBJECT TO REPORT QUALIFICATIONS			

GEOSEARCH, INC.
Wichita, Kansas



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 STATE CORPORATION COMMISSION
 AUG - 1 1989
 CONSERVATION DIVISION
 Wichita, Kansas

L. 751
 M. 1549

APTS 118-25

SCALE	4" = 1 MILE	AREA	12-33 (1988)
DATUM PLANE	+3025	LOCATION	LOGAN COUNTY, KANSAS
V ₀	2000 %	FOR	CHIEF DRILLING CO.
V ₅₀	7000 %	CONTOURED ON	<i>Anhydrite - Lower Penn</i>
CONTRACT NUMBER	87-110	INTERVAL	.002 Sec.
MGP No 01 MGRS	MAP SUBJECT TO REPORT QUALIFICATIONS		

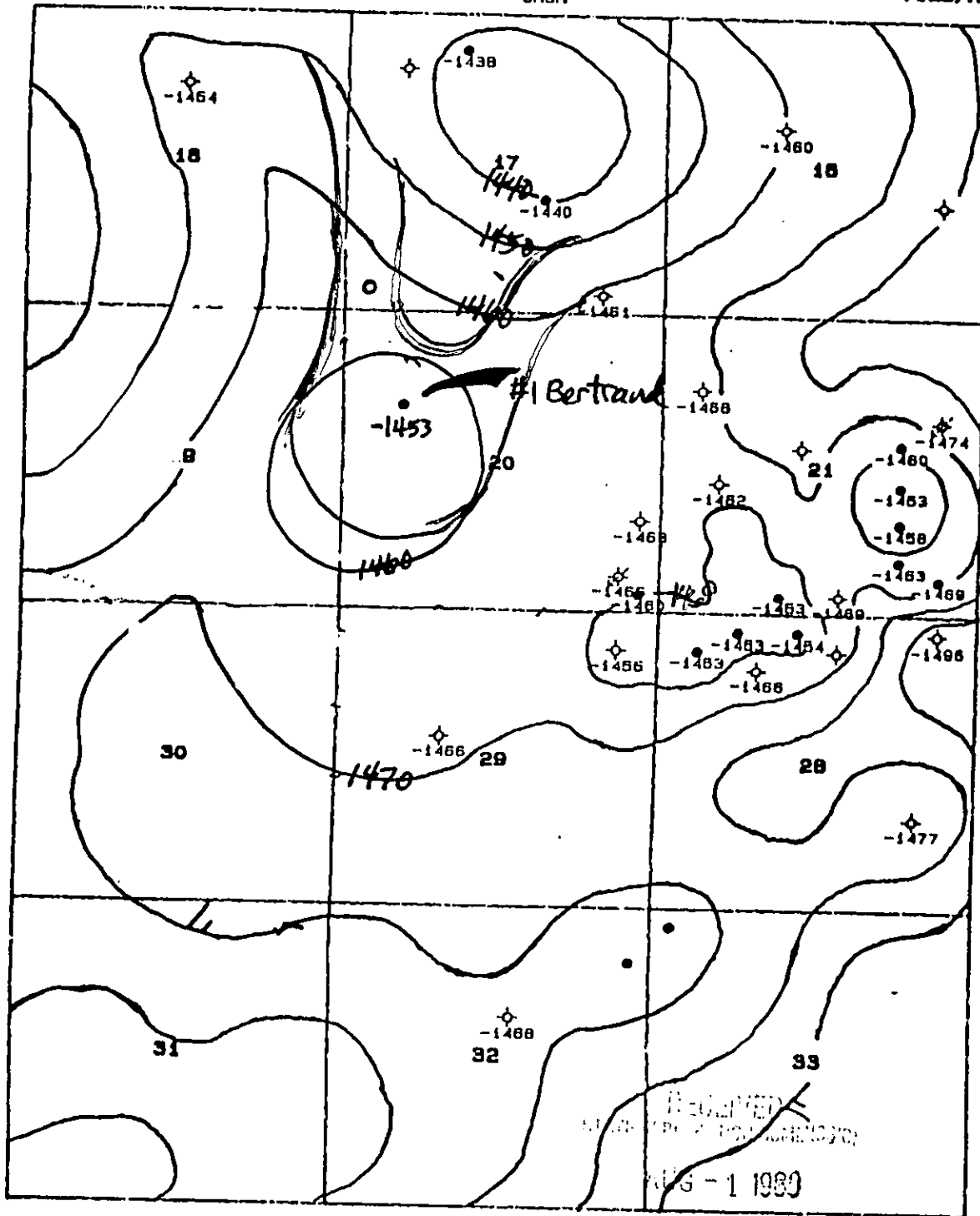
GEOSEARCH, INC.
 Wichita, Kansas

15-109-20473-0000

T128/R33M

CHSH

T128/R33M



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 AUG - 1 1980

T128/R33M

CONSERVATION DIVISION

T128/R33M

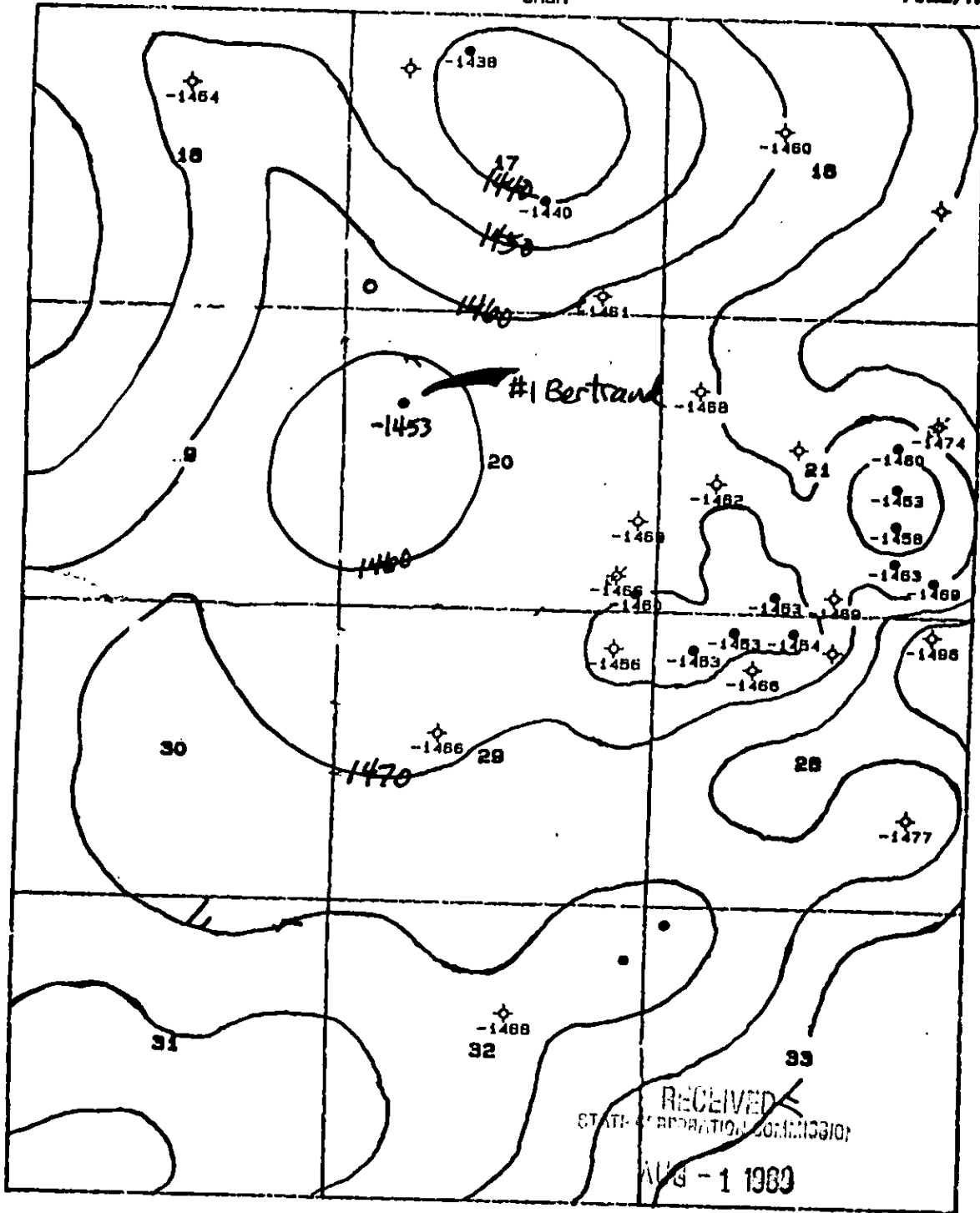
CHEROKEE STRUCTURE

15-109-20473-0000

T128/R33N

CHSH

T128/R33N



T128/R33N

CONSERVATION DIVISION

T128/R33N

CHEROKEE STRUCTURE

TELEPHONE:
AREA CODE 913 483-8827

ALI 'ED CEMENTING COMPANY, INC.

P. O. BOX 31

RUSSELL, KANSAS 67865

15-109-20473-0000

TO: Chief Drilling Co. Inc.
1200 N. Vine
Hoisington, Kansas 67544

INVOICE NO. 53861

TICKET NO. _____

LEASE NAME Bertrand #1

DATE April 21, 1989

SERVICE AND MATERIALS AS FOLLOWS:

Common 30 sks @\$6.00	\$ 180.00	
Posmix 20 sks @\$2.40	48.00	
ATL 350 sks @\$6.25	2,187.50	
Chloride 2 sks @\$20.00	40.00	
Sand 2 sks @\$4.75	<u>9.50</u>	\$ 2,465.00
Handling 400 sks @\$0.90	360.00	
Mileage (16) @\$0.03c per sk per mi	192.00	
Pmp. trk. chg.	838.00	
Mi @\$1.00 pmp. trk.	16.00	
1 plug	<u>31.00</u>	<u>1,437.00</u>

If account CURRENT 20% discount will be allowed ONLY if paid within 30 days from date of invoice.

Cement circ.

Total \$ 3,902.00

WELL # 4-
 LEASE # 5100
 DATE 5-21-89
 BILL ACCT # 1450200
 LEASE # 40200
 WELL # _____
 DATE POSTED _____

THANK YOU

All Prices Are Net, Payable 30 Days Following Date of Invoice. 1 1/2% Charged Thereafter.

COPY

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STATE COMMISSION

JUN -2 1989

Phone 913-483-2627, Russell, Kansas
 Phone 316-793-5861, Great Bend, Kansas

15109-20473-0000 Phone Plainville 913-434-2812
 Phone Ness City 913-798-3843

ALLIED CEMENTING CO., INC. No 3238

Home Office P. O. Box 31

Russell, Kansas 67665

New

Date	4-21-89	Sec.	20	Twp.	12	Range	33	Called Out	5:30 AM	On Location	9:45 AM	Job Start	11:30 AM	Finish	1:15 PM
Lease	Reston	Well No.	1	Location	Monument	2 1/2 S - E	Entire	Logan		County		State	KS		

Contractor	Hemlock
Type Job	Circulating
Hole Size	T.D.
Csg.	4 1/2"
Tbg. Size	Depth
Drill Pipe	Depth
Tool	Plug 3/20"
Cement Left in Csg.	Shoe Joint
Press Max.	500#
Meas Line	2620
Perf.	2630

Owner	Jane
To Allied Cementing Co., Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
Charge To	Chief Drilling Co. Inc.
Street	1200 N. Vine
City	Hoisington, State KS 67544
The above was done to satisfaction and supervision of owner agent or contractor	
Purchase Order No.	
<i>Steve Lindquist</i>	
CEMENT	
Amount Ordered	350 ATL - 505# 604030
Consisting of	2 1/2" Sand

No.	Cementer	<i>Mike Gary</i>
Pumptrk 46	Helper	
No.	Cementer	<i>Berd Dene</i>
Pumptrk 41	Helper	
	Driver	
Bulktrk 199	Driver	

Common	30	6.00	180.00
Poz. Mix	20	2.40	48.00
Get.	350 ATL	6.25	2187.50
Chloride	2	20.00	40.00
Quickset			
Sand - 2		4.75	9.50
		Sales Tax	

DEPTH of Job	
Reference:	
OAKLEY Pump 1/2 Chy	838.00
Pump 1/2 Mileage	16.00
4 1/2 Rubber Plug	31.00
Sub-Total	
Tax	
Total	885.00

Handling	400	.90	360.00
Mileage	16		192.00
OAKLEY			
		Sub Total	
		Total	3017.00

Remarks: Cement Died Circulate

Floating Equipment

TOTAL \$ 3902.00
 Less Disc - 780.40
 \$ 3121.60

Thank you