

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

ORIGINAL

Operator: License # 7117
Name: Colorado Interstate Gas Company
Address: PO Box 1087
City/State/Zip: Colorado Springs, CO 80944
Purchaser: n/a ADDED BACK TO GAS ALREADY IN STORAGE
Operator Contact Person: Anthony P. Trinko
Phone: () 719-520-4557

API No. 15 - 129-20246-0002
County: Morton
NE NE SE Sec. 10 Twp. 33 S. R. 42 East West
2410 feet from S / N (circle one) Line of Section
132 feet from E / W (circle one) Line of Section

Contractor: Name: KEY ENERGY SERVICES
License: 32234
Wellsite Geologist: NONE
Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SIOW Temp. Alter.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)
(was gas storage well)

Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: Boehm Well #: 30
Field Name: Boehm Storage Field
Producing Formation: NINNESCAH SHALE + WELLINGTON LIME
Elevation: Ground: 3461' Kelly Bushing: --
Total Depth: 4952' GL Plug Back Total Depth: 4100'
Amount of Surface Pipe Set and Cemented at 1229 Feet
Multiple Stage Cementing Collar Used? Yes No
If Yes, show depth set _____ Feet
If Alternate II completion, cement circulated from _____
feet depth to _____ w/ _____ sx cmt.

If Workover/Re-entry: Old Well Info as follows:
Operator: Colorado Interstate Gas Company
Well Name: Boehm #30
Original Comp. Date: 10/26/76 Original Total Depth: 4952'
 Deepening Re-perf. Conv. to Enhr./SWD
 Plug Back 4100' Plug Back Total Depth
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Enhr.?) Docket No. _____
2/17/99 2/22/99

Drilling Fluid Management Plan REWORK FR 6/26/01
(Data must be collected from the Reserve Pit)
Chloride content _____ ppm Fluid volume _____ bbls
Dewatering method used _____
Location of fluid disposal if hauled offsite:
Operator Name: _____
Lease Name: _____ License No.: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Docket No.: _____

~~Start~~ Date of START 2/17/99 Date Reached TD 2/22/99 Completion Date or
Recompletion Date of 2/22/99 Recompletion Date of
OF WORKOVER WORKOVER

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of 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 geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. 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: Anthony P. Trinko
Title: Sr. Engineer Date: 2/16/2000
Subscribed and sworn to before me this 16th day of February
2000
Notary Public: Cheryl Bauer
Date Commission Expires: 4-12-02

KCC Office Use ONLY

- Letter of Confidentiality Attached
- If Denied, Yes Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution

KCC

Operator Name: Colorado Interstate Gas Company Lease Name: Boehm Well #: 30
 Sec. 10 Twp. 33 S. R. 42 East West County: Morton

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems 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 test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<u>MORROW "G" SAND</u>	<u>4770'</u>	
Electric Log Run <i>(Submit Copy)</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
List All E. Logs Run:	<u>None</u>			

CASING RECORD <input checked="" 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	# Sacs Used	Type and Percent Additives
<u>Conductor</u>	<u>17 3/4"</u>	<u>13 3/8"</u>		<u>140</u>			
<u>Surface</u>	<u>12 1/4"</u>	<u>8 5/8"</u>		<u>1229</u>			
<u>Production</u>	<u>7 7/8"</u>	<u>5 1/2"</u>		<u>4870</u>			

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input checked="" type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	<u>4100' 4311'</u>	<u>Class H-prem</u>	<u>25</u>	<u>no additives</u>

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth
<u>4</u>	<u>1413'-1423', 1436'-1446', 1850'-1860'</u>	<u>not acidized</u>	
	<u>Fraced 2/07/00 1413'-1423', 1436'-1446'</u>	<u>25,000 # 20/40 sand</u>	
<u>4</u>	<u>4771'-4784' (OLD)</u>		
<u>(1989) →</u>	<u>CIBP@4814'</u>	<u>1 sack cmt on top of bridge plug</u>	

TUBING RECORD	Size	Set At	Packer At	Liner Run
<u>n/a</u>				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First, Resumed Production, SWD or Enhr. 3/9/99 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours
 Oil Bbls. n/a - gas storage well Gas Mcf. 150 Water Bbls. Gas-Oil Ratio Gravity

Disposition of Gas Vented Sold Used on Lease Open Hole Perf. Quality Comp. Commingled
(If vented, Sumit ACO-18.) Other (Specify)

PUT BACK INTO MORROW STORAGE RESERVOIR

Kcc
JH

Production Interval
1413'-1423'
1436'-1446'
1850'-1860'

REGION North America	NWA/COUNTRY Mid Continent	BDA / STATE KS	COUNTY McPherson
MBU ID / EMP # 1110101 63601 106322	EMPLOYEE NAME D. V. Lane	PSL DEPARTMENT ZF	CUSTOMER REP / PHONE
LOCATION Liberal KS	COMPANY Colorado Interstate Gas	API / UWI #	
TICKET AMOUNT 3315.19	WELL TYPE OS	JOB PURPOSE CODE 135	
WELL LOCATION 11 Elkheart	DEPARTMENT ZT		
LEASE / WELL # B...	SEC / TWP / RNG 11 33S 42W		

HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS
D. V. Lane 63601 106322			
J. Taylor 105983			
J. Burdett 105970			
J. Anderson 09213 105915			

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
420995	160						
54218-76300	160						
53335-6011	110						

Form Name _____ Type: _____
 Form Thickness _____ From _____ To _____
 Packer Type _____ Set At _____
 Bottom Hole Temp. _____ Pressure _____
 Misc. Data _____ Total Depth _____

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
Float Collar		
Float Shoe		
Guide Shoe		
Centralizers		
Bottom Plug		
Top Plug		
Head		
Packer		
Other		

MATERIALS

Treat Fluid	Density	Lb/Gal
Disp. Fluid	Density	Lb/Gal
Prop. Type	Size	Lb.
Prop. Type	Size	Lb.
Acid Type	Gal.	%
Acid Type	Gal.	%
Surfactant	Gal.	in
NE Agent	Gal.	in
Fluid Loss	Gal/Lb	in
Gelling Agent	Gal/Lb	in
Fric. Red.	Gal/Lb	in
Breaker	Gal/Lb	in
Blocking Agent	Gal/Lb	
Perfpac Balls	Qty.	
Other		
Other		
Other		
Other		

DATE	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
TIME	2-20-99 0530	2-20-99 0900	2-20-99 1045	2-20-99 1101

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing						
Liner						
Liner						
Tbg/D.B.	LN	4.7	2 7/8	4311	213	
Tbg/D.P.						
Open Hole						SHOTS/FT.
Perforations						
Perforations						
Perforations						

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
				See Job Log
TOTAL		TOTAL		

ORDERED	HYDRAULIC HORSEPOWER	Avail.	Used
TREATED	AVERAGE RATES IN BPM	Disp.	Overall
FEET	CEMENT LEFT IN PIPE	Reason	

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
	25	2...	13		1.06	16.4

Circulating Breakdown	Displacement Maximum	Preflush:	Gal - BBI	Type
Average	Frac Gradient	Load & Bkdn:	Gal - BBI	Pad: BBI - Gal
Shut In: Instant	5 Min 15 Min	Treatment	Gal - BBI	Disp: BBI - Gal 16
		Cement Slurr	Gal - BBI 4.7	
		Total Volume	Gal - BBI	

Frac Ring #1 _____ Frac Ring #2 _____ Frac Ring #3 _____ Frac Ring #4 _____

THE INFORMATION STATED HEREIN IS CORRECT

CUSTOMER'S REPRESENTATIVE SIGNATURE _____



JOB LO 239-5

TICKET #	TICKET DATE
333	[Redacted]
BDA / STATE	COUNTY
KS	[Redacted]
PSL DEPARTMENT	
ZT	
CUSTOMER REP / PHONE	
API / UWI #	
JOB PURPOSE CODE	
125	

REGION	North America	NW/COUNTRY	USA
MBU ID / EMP #		EMPLOYEE NAME	[Redacted]
LOCATION	KS	COMPANY	Chadwick Industries
TICKET AMOUNT		WELL TYPE	35
WELL LOCATION	76 East	DEPARTMENT	ZT
LEASE / WELL #	[Redacted]	SEC / TWP / RNG	11 33S 42W

ORIGINAL

HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS
[Redacted]		101827					
[Redacted]		105013					
[Redacted]		105915					

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL/GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	0930							Called for Job
	0936							Job complete
	0900							on location rig running in Plug
	1037							then on bottom
	1040							Hookup to pump truck
								Job Procedure for Plug @ 4311
	1042					12500		Pressure test lines
	1045	3	5			7650		Start Fresh water Ahead
	1051	3	4.7			650		Start Cement @ 16.9 #
	1053	3	1			650/40		Start Fresh water behind
	1054	3	14.8			12500/3000		Start Mud Displacement
	1101					100/0		Shut down
	1102							Knock tests
	1109							Full Plug done

Thank You For Calling Halliburton

Darrell L. Sprague II

RECEIVED STATE CORPORATION COMMISSION

FEB 22 2000

CONSERVATION DIVISION Wichita, Kansas

Perryton, Texas 79070-1105
 24 Hour Phone (806) 435-3087
 FAX (806) 435-9668

ORIGINAL

INDIVIDUAL WELL DATA SHEET

SEC. 10-R42W-T335

Company COLORADO INTERSTATE GAS Lease BOEHM Well No. 30
 Field BOEHM GAS STORAGE County MORTON State KANSAS
 Test Date 11-30-99 Time 10:10 A.M. Status of Well FLOWING
 Top of Pay 4771 Total Depth PB 4808 Producing Formation G SAND
 Tubing 2 3/8 Depth 4791 Packer _____ Pressure Datum _____
 Casing 5 1/2 Depth 4944 Perfs 4771-4784 Liner _____

Depth Feet	△ Depth	Pressure Lbs. Sq. In.	△ Pressure	*Gradient Lbs./ft.	
SURFACE		10			Casing Pressure 18 Flowing
	100		9	.090	Tubing Pressure NONE
100		27			Top of Fluid 72
	100		30	.300	Top of Water
200		57			Hours Shut-In Flowing
	100		36	.360	Temperature 121°
300		93			
	100		38	.380	Elevation
400		131			Last Test Date 10-24-98
	100		41	.410	Press. Last Test
500		172			B.H.P. Change
	100		38	.380	
600		210			Element Range 0-2500
	100		39	.390	RPG -3 19793
700		249			Calibration No.
	100		39	.390	Run By John Lilly/Oren Stroup
800		288			Calculated By Duane Pshigoda
	100		40	.400	
900		328			
	100		48	.480	
1000		376			
	100		40	.400	
1100		416			
	100		49	.490	
1200		465			
	100		45	.450	
1300		510			
	100		46	.460	
1400		556			
	100		50	.500	
1500		606			
	100		51	.510	
1600		657			
	100		49	.490	
1700		706			
	100		49	.490	
1800		755			
	100		55	.550	
1900		810			
	100		50	.500	
2000		860			
	1000		480	.480	
3000		1340			
	1000		437	.437	
4000		1777			
	49		24	.489	
4049 TD		1801			

*Gradients are calculated in decimals. Pressure and △ pressure are shown to the nearest pound. All pressure instruments are Temperature Compensated. All pressures are calculated P.S.I.G.

DISTRIBUTION: 2 - Colorado Interstate Gas
 Attn Steve Jacobs
 P.O. Box 1087
 Colorado Springs, CO. 80944

1 - Colorado Interstate Gas
 Morton Station
 Route 1 Box 04
 Richfield, Kansas 67953-9712

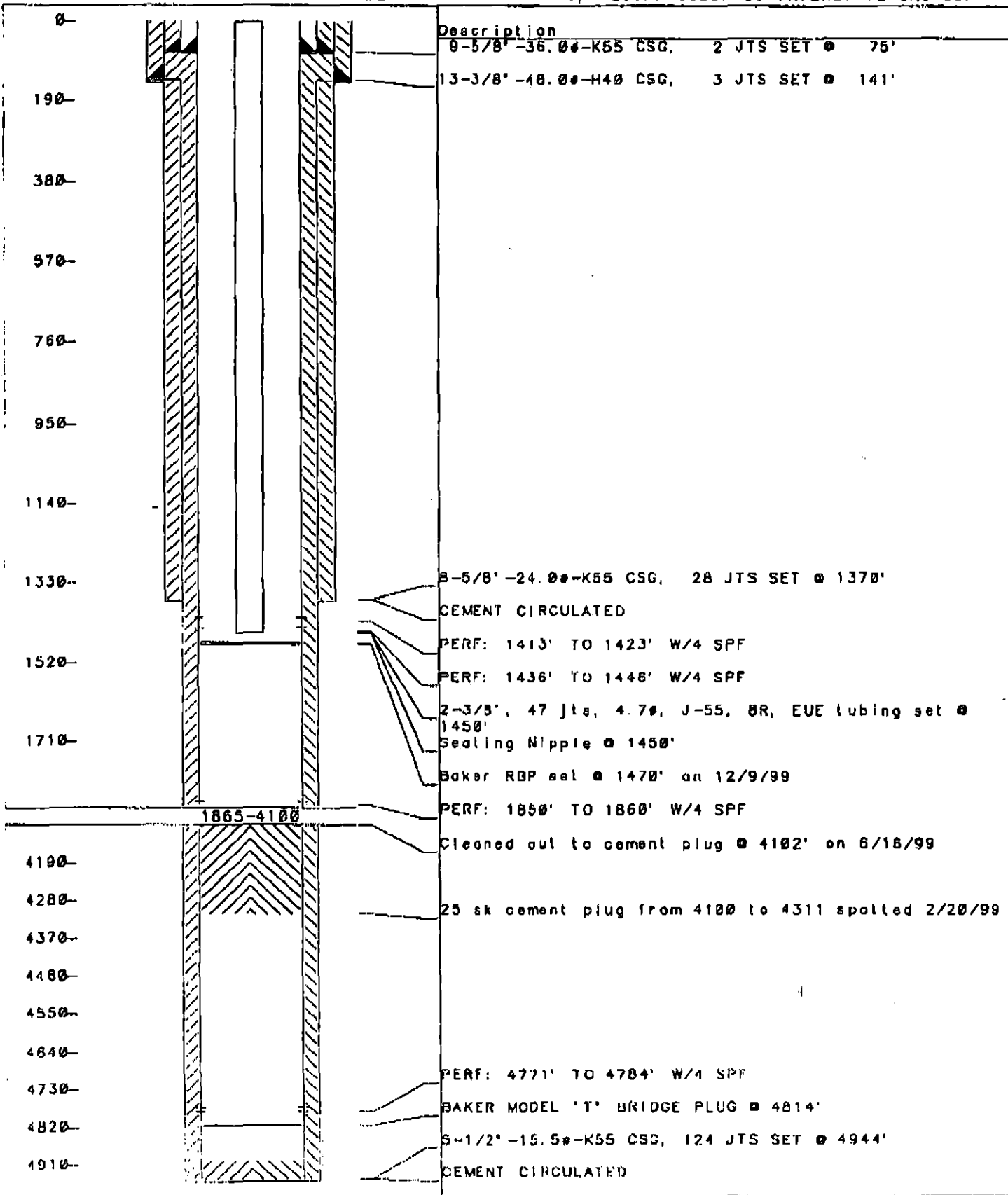
ORIGINAL

Lease:BOEHM
Well #:30

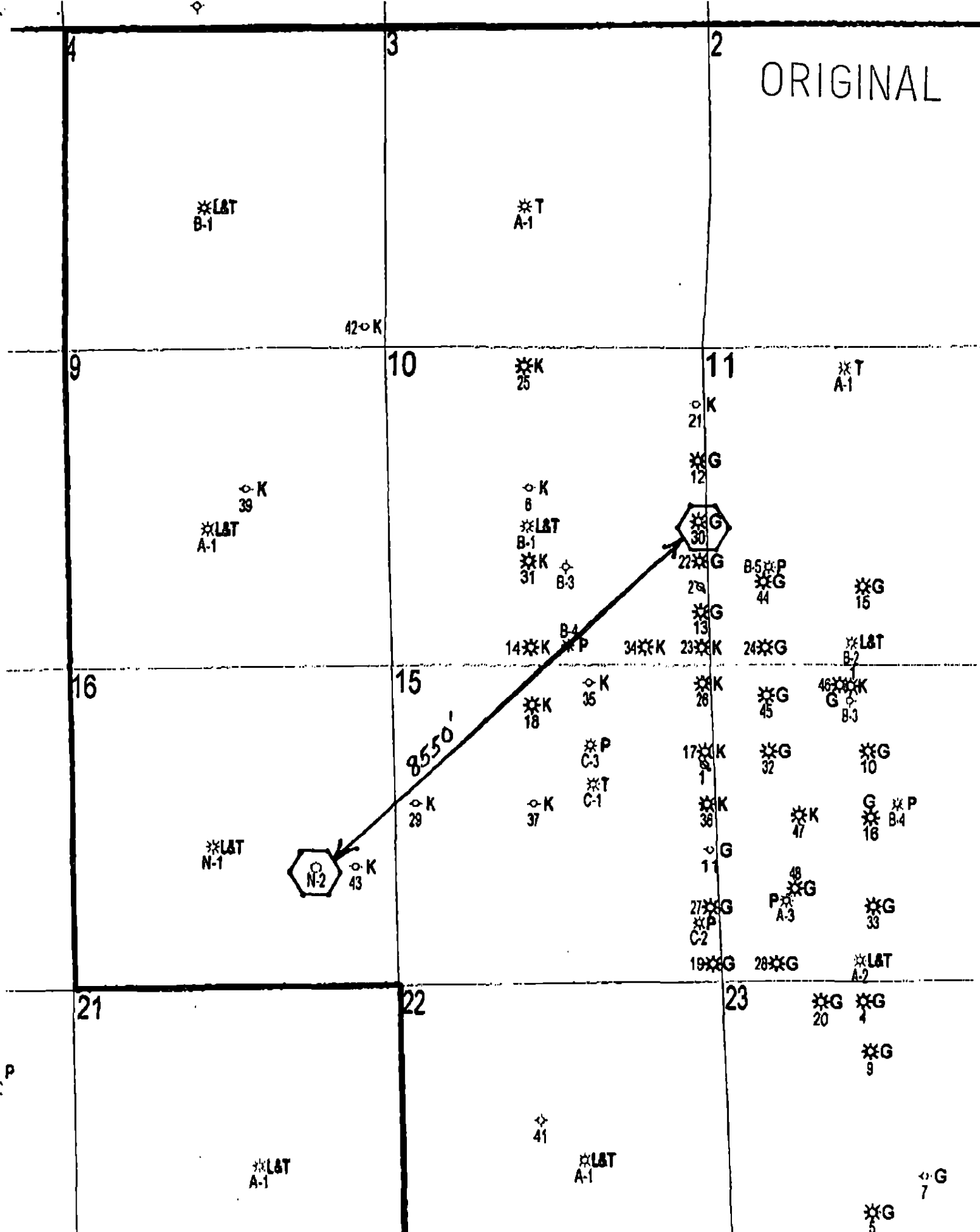
API #: 15-129-20246
Location: Sec 10 Twn 33S Rng 42W
County: MORTON
State: KANSAS
Field: BOEHM STORAGE FIELD
Operator: COLORADO INTERSTATE GAS CO.

Spud Date: 10/03/1978
KB: 0
TD: 4952

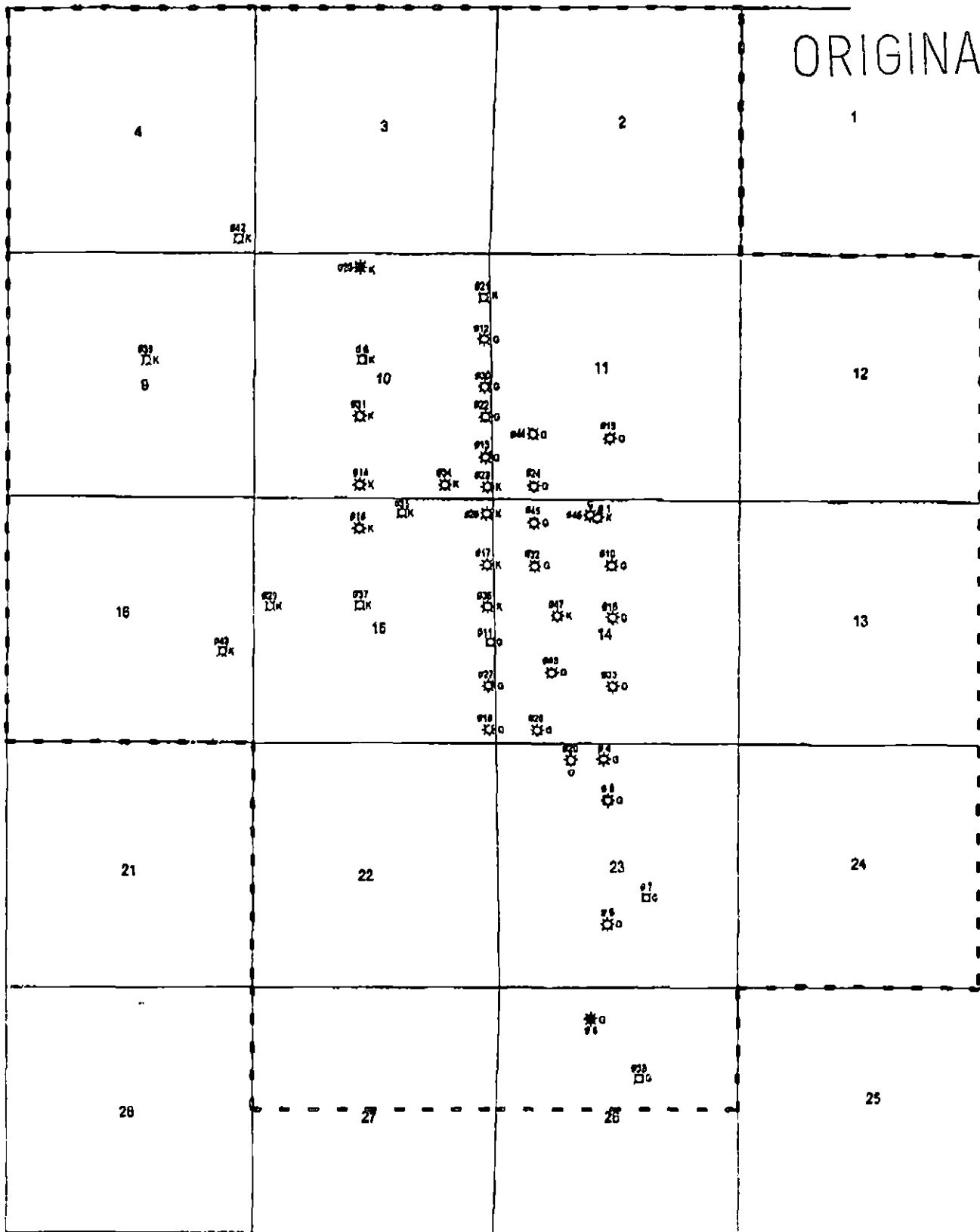
Plot Date: 07/10/2000
ELEV: 3461
PBD: 4102




ORIGINAL



ORIGINAL



- Protection Acreage Boundary
- ⊗ Injection/Withdrawal Well
- ⊠ Observation Well
- ⊞ Salt Water Disposal Well
- ⊕ Dry Hole
- ⊘ Plugged Well
- ⊙ Topoka Gas Well
- ⊚ Lansing & Topoka Gas Well
- ⊛ Purdy Gas Well
- ⊜ Purdy Oil & Gas Well


Colorado Interstate Gas Company
 A SUBSIDIARY OF THE COASTAL CORPORATION

Boehm Storage Field
Well Location Map
 Township 33 South, Range 42 West
 Barton County, Kansas