

STATE CORPORATION COMMISSION OF KANSAS  
OIL & GAS CONSERVATION DIVISION

WELL COMPLETION OR RECOMPLETION FORM  
ACO-1 WELL HISTORY

DESCRIPTION OF WELL AND LEASE

Operator: license # 5817  
name Benson Mineral Group, Inc.  
address 1726 Champa St.  
Suite 600  
City/State/Zip Denver, CO 80202

Operator Contact Person Bill Philo  
Phone 303-232-0100

Contractor: license # 8241  
name Emphasis Oil Operations

Wellsite Geologist Lewis Chubb  
Phone 316-793-6749

PURCHASER Northern Natural Gas Co.

Designate Type of Completion  
 New Well  Re-Entry

- 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  
7-16-84 7-25-84 7-26-84  
Spud Date Date Reached TD Completion Date  
4260' RTD 2330'  
Total Depth PBD

Amount of Surface Pipe Set and Cemented at 933 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

API NO. 15 - 145-21,141-0000

County Pawnee

SW NE SE Sec 24 Twp 21S Rge 20 West

1650 Ft North from Southeast Corner of Section  
990 Ft West from Southeast Corner of Section  
(Note: locate well in section plat below)

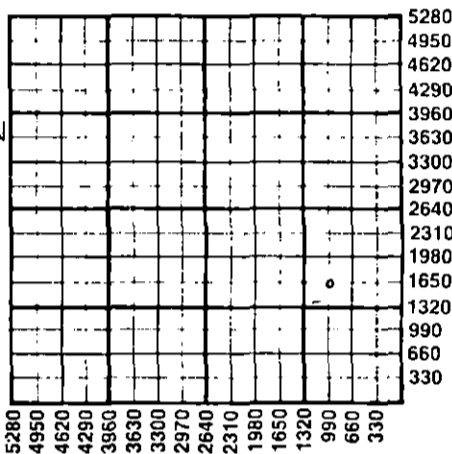
Lease Name Unruh Well# 3-24

Field Name Bryant S.E.

Producing Formation Towanda

Elevation: Ground 2088' KB 2093'

Section Plat



RECEIVED  
OCT 9 1984  
CONSERVATION DIVISION  
Wichita, Kansas  
10-9-84

WATER SUPPLY INFORMATION

Source of Water:  
Division of Water Resources Permit # T84-408

Groundwater 1600 Ft North From Southeast Corner and  
990 Ft. West From Southeast Corner of  
Sec 24 Twp 21S Rge 20  East  West

Surface Water Ft North From Southeast Corner and  
Ft West From Southeast Corner  
Sec Twp Rge  East  West

Other (explain) (purchased from City, R.W.D.#)

Disposition of Produced Water:  Disposal  Repressuring

Docket #

INSTRUCTIONS: This form shall be completed in duplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 90 days after completion or recompletion of any well. Rules 82-3-130 and 82-3-107 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 James S. Jameson  
Title Vice President Date 9/28/84

Subscribed and sworn to before me this 28th day of September 1984

Notary Public Date Commission Expires

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. 24 Twp. 21S Rge. 20W

Operator Name Benson Mineral Group, Inc. Lease Name Unruh Well# 3-24 SEC. 24 TWP. 21S RGE. 20  East  West

**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

DST #1 - 3870' - 3900', 30-30-45-60,  
 Rec 50' gas x oil cut mud: IFP 39-49,  
 ISIP 1169, FFP 69-89, FSIP 1189

Name	Top	Bottom
Anhydrite	1199'	1223'
Base	1223'	2144'
Chase-Herington	2144'	2162'
Krider	2162'	2203'
Winfield	2203'	2274'
Towanda	2274'	2500'
Council Grove	2500'	2854'
Admire	2854'	2954'
Wabaunsee	2954'	3018'
Tarkio	3018'	3070'
Emporia	3070'	3208'
Shawnee Topeka	3208'	3575'
Heebner	3575'	3590'
Toronto	3590'	3630'
Lansing KS. City	3630'	3889'
Swope	3889'	3954'
Base KC	3954'	3976'
Marmaton	3976'	4114'
Cherokee	4114'	4208'
Miss. Osage	4208'	4364'
LTD	4364'	
RTD	4260'	

**CASING RECORD**  new  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	12. 1/4"	8. 5/8"		933'	60/40 POZ.	425	3% cc., 2% gel.
Production	7. 7/8"	4. 1/2"		2330'	60/40 POZ.	250	10% salt

**PERFORATION RECORD**

shots per foot specify footage of each interval perforated

**Acid, Fracture, Shot, Cement Squeeze Record**

(amount and kind of material used) Depth

2	2274' - 79'	Fraced x 1000 gal. 15% Hcl. .... followed by 10,000#. 20-40 sd. in 14,000 gal. 80 quality @ .10 BPM	2274-79'
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**TUBING RECORD**

size 2 3/8" set at 2286' packer at

Liner Run  Yes  No

Date of First Production  
9-12-84

Producing method  flowing  pumping  gas lift  Other (explain)

Estimated Production Per 24 Hours	Oil Bbls	Gas MCF	Water Bbls	Gas-Oil Ratio CFPB	Gravity
		200			

**METHOD OF COMPLETION**

Disposition of gas:  vented  sold  used on lease  
 open hole  perforation  other (specify) .....  
 Dually Completed.  
 Commingled

**PRODUCTION INTERVAL**

2274' - 79'