

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

S

API NO. 15-175-20,930-0000

County... Seward

... NW NW Sec. 17 Twp. 32S Rge. 31 East X West

4620 Ft North from Southeast Corner of Section
4620 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

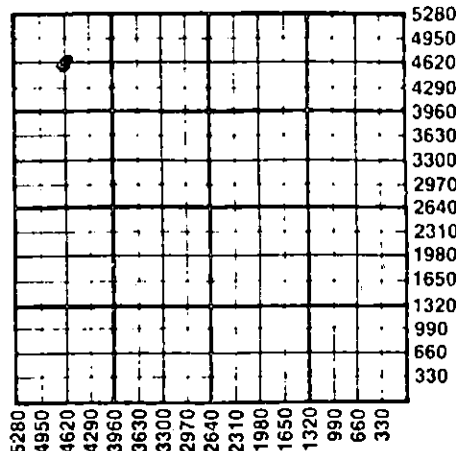
Lease Name... Reiss Well #. 1-17

Field Name... Plains West

Producing Formation... Morrow

Elevation: Ground... 2,795' KB... 2,808'

Section Plat



WATER SUPPLY INFORMATION

Disposition of Produced Water: X 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 #... T86425

X Groundwater... 4,620 Ft North from Southeast Corner
(Well) ... 4,620 Ft West from Southeast Corner of
Sec 17 Twp 32S Rge 31 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 # ... 4782
Name... Ensign Operating Co.
Address... 621 17th St., Suite 1140
City/State/Zip... Denver, CO 80293

Purchaser... NA - ST
KCC

Operator Contact Person... Larry Hartnett
Phone... 303-293-9999

Contractor: License # ... 5107
Name... H-30, Inc.

Wellsite Geologist... Duane Moredock
Phone... (303) 629-7204

Designate Type of Completion
X New Well Re-Entry Workover
Oil SWD Temp Abd
X 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
12-20-86 1-1-87 3/01/87
Spud Date Date Reached TD Completion Date
6050' 5,835'
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 1662 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 #

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... Lawrence T. Hartnett
Title... Manager, Operations Date 3/27/87

Subscribed and sworn to before me this 27th day of March 1987
Notary Public... Cheryl B. Helbert

Date Commission Expires... 9/12/90

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 17 Twp 32S Rge 31E

Operator Name Ensign Operating Co Lease Name..... Reiss..... Well #..... 1-17

Sec..... 17..... Twp... 32S..... Rge... 31..... 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

DST #1: 4356-94' 30,60
 FP 107-256
 ISIP 1239
 HP 2192-2181
 BHT-126°
 Open w/2" blow to bottom of bucket in 13 mins., remain throughout. Rec'd 543' SGCMW w/oil specks in tool.

| Name | Top | Bottom |
|--------------------|-------|--------|
| Sand and Red Bed | 0 | 1040' |
| Red Bed | 1040' | 1640' |
| Anhydrite | 1640' | 1770' |
| Lime and Shale | 1770' | 6050' |
| Rotary Total Depth | | 6050' |

DST #2: 5476-5573' 30,60,60,120
 GTS in 7 mins.
 FP 233-222, 189-189
 SIP 1106-1095
 HP 2693-2602
 BHT 135°
 Rec'd 150' GCM

DST #3: 5282-5878 30,60,60,120
 IFP 78-78
 ISIP 1438
 FFP 100-100 FSIP 1580 IHP 3143 FHP 2891
 BHT 139° Rec'd 666' gas in pipe and 115' sli. oil and GCM.

| 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 | #Sacks Used | Type and Percent Additives |
| Conductor | 24" | 16" | 60# | 40' | 3% yard | 6 sks | grout |
| Surface | 12-1/4" | 8-5/8" | 24# | 1662' | Lite Wt. | 650 | 2% cc |
| Production | 7-7/8" | 4-1/2" | 10 5# | 6050' | Class H Premium | 150 | 2% cc |
| 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 jspf | 5862-5866' | | | See attached sheet | | | 3% |
| 1 jspf | 5532-5536' | | | | | | |
| 1 jspf | 5544-5548' | | | | | | |
| 1 jspf | 5556-5560' | | | | | | |
| 1 jspf | 5575-5580' | | | | | | |
| TUBING RECORD | | | | | | | |
| Size | Set At | Packer at | Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | | | |
| 2-3/8" | 5524.30' | N/A | | | | | |
| Date of First Production | Producing Method | | | | | | |
| Not available at this time | <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (explain)..... | | | | | | |
| Estimated Production Per 24 Hours | Oil | Gas | Water | Gas-Oil Ratio | Gravity | | |
| | 0 Bbls | 514 MCF | 9 Bbls | N/A | CFPB | N/A | |

valid #4 KCL water

METHOD OF COMPLETION

Production Interval

Disposition of gas: Vented Open Hole Perforation
 Sold Other (Specify)
 Used on Lease
 SI - Awaiting Pipeline Dually Completed Commingled

5532-5580
 Morrow

Attached and made a part of the Completion Report for the Reiss #1-17 Well dated March 27, 1987.

Acid, Fracture, Shot, Cement Squeeze Record

| (Amount and Kind of Material Used) | Depth |
|---|--------|
| 2000 gal. 15% FE w/8 gallons Morfol II, 4 gal. Losurf 300 & 2 gal. HAI 60 | 6,009' |
| 1000 gal. 15% FE Acid and 1000 SCF/bbl nitrogen | 5,835' |
| PAD - 13000 gal. 70 Quality Nitrogen Foam | 5,835' |
| 5000 gal. 70 Quality Nitrogen Foam 1#/gal 20/40 sand | |
| 5000 gal. 70 Quality Nitrogen Foam 2#/gal 20/40 sand | |
| 8000 gal. 70 Quality Nitrogen Foam 3#/gal 20/40 sand | |
| Flush: 2800 gal. 50 Quality Nitrogen Foam | |