

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 # 5140
Name Frontier Oil Company
Address 125 N. Market, Ste 1720
Wichita, Ks. 67202
City/State/Zip

Purchaser: Phenix Transmission Co.
120 S. Market, #320, Wichita

Operator Contact Person: Jean Angle
Phone: 316-263-1201

Contractor: License # 5302
Name Red Tiger Drilling Company

Wellsite Geologist: Terry Piesker
Phone: 913-483-5348

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: Pure Oil
Well Name: Hazel Beals #1
Comp. Date: 12-30-55 Old Total Depth: 5940

WELL HISTORY

Drilling Method:
 Mud Rotary Air Rotary Cable

3-16-85 3-18-85 1-21-86
Spud Date Date Reached TD Completion Date
3498.60' 3400'
Total Depth PBSD

Amount of Surface Pipe Set and Cemented at 240 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. 15-033--01,002--00-02

County: Comanche

C. NE NW Sec. 5 Twp. 34S Rge. 17W East West

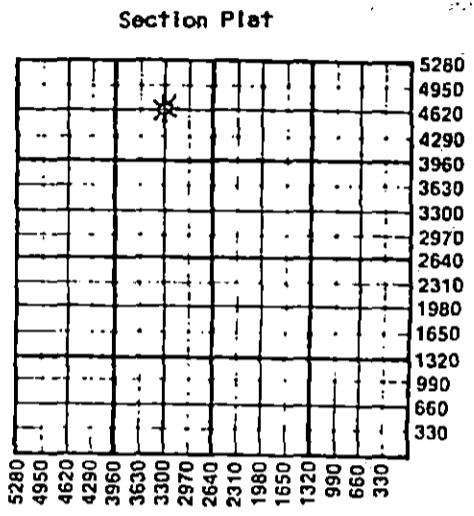
4620' Ft North from Southeast Corner of Section
3300' Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

Lease Name: Harper (WD) Well #1

Field Name: Beals

Producing Formation: Wabaunsee

Elevation: Ground 1857' KB 1862'



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

Questions on this portion of the ACO-1 call:
Water Resources Board (913) 296-3717
Source of Water: Luana Huck Estate, Coldwater
Division of Water Resources Permit #

500' Ft North from Southeast Corner (Well)
3100' Ft West from Southeast Corner of Sec 33 Twp 33 Rge 17 East West
500' Ft North from Southeast Corner (Stream, pond etc.)
3100' Ft West from Southeast Corner of Sec 33 Twp 33 Rge 17 East West
 Other (explain).....
(purchased from city, R.W.D. #)

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. Rule 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: Jean Angle
Title: Agent Date: 2/28/86

DEBRA J. HERLEY
State of Kansas
Notary Public
Date Commission Expires: 9/28/86

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

Operator Name Frontier Oil Company Lease Name Harper (WD) Well # 1

Sec. 5 Twp. 34S Rge. 17W East West County Comanche

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 <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Formation Description <input type="checkbox"/> Log <input type="checkbox"/> Sample Name _____ Top 3354 <u>Old Info</u> Heebner 4143 -2281 Toronto 4145 -2283 L-KC 4345 -2483 Marmaton IM 4912 -3050 Mississippi 5057 -3195 Viola 5603 -3741 Simpson 5653 -3791 Simpson Sd 5743 -3881 Arbuckle 5774 -3912
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RELEASED
MAY 28 1987

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used FROM CONFIDENTIAL 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
Production	7-7/8"	5 1/2"	14#	3500'	Common	350	10% Salt
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth			
Shots Per Foot	Specify Footage of Each Interval Perforated						
4	2866 to 2877'			500 gal., 15% demulsion		2866-2877'	
4	3354 to 3366'			250 gal., 15% demulsion		3354-3366'	
4	3366 to 3380'			500 gal., 15% regular acid		3366-3380'	
4	3413 to 3420'						
TUBING RECORD		Size <u>N/A</u>	Set At _____	Packer at _____	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Date of First Production		Producing Method					
1-21-86		<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	
N/A bbls		4,000 MCF		-0- Bbls	N/A	CFPB	

METHOD OF COMPLETION Production Interval

Disposition of gas: Vented Open Hole Perforation
 Sold Other (Specify) 3366-3380'
 Used on Lease Dually Completed 3354-3366'
 Commingled

HARPER #1
(Completion)**CONFIDENTIAL**

Rig 2

- 3-26-85 Moved Rig 2 cable tools from Urban "D" #4 to Harper #1. Rigged up. Ran Gamma Ray and Bond Log. TD 3440'. Top of cement 2410'. Swabbed down to 2500'. Perforated from 3413' to 3420' w/4 shots per ft. D.P.'s. Swabbed well down. No show.
- 3-27-85 Overnight fillup - 1100' water. Swab down - 24.60 Bbl. water. No show of gas. Set 5-1/2" plug at 3400'. Perforated w/2 - 7' guns from 3366' to 3380' w/4 shots per ft. D.P.'s. Swabbed well down and had no show of gas. Treated w/500 gal., 15% regular acid. Max. press. - 700#. Treated at 3 BPM at 325# to 300#. ISIP - 250#. SI overnight.
- 3-28-85 SI Pressure - 100#. Blew down and swabbed to 1800'. Kicking good. Well kicked off and unloaded. Died. Shut in for 30 minutes and built up to 375#. Kicked well off and unloaded. Gauged 765,000 CF/Day and spill wet. Blew for 3 hrs and gauged 1,300,000 still wet (mist and dribbling small 1/4 stream). Perforated from 3354' to 3366' w/4 shots per ft. D.P.'s. Shut in 90 minutes to perforate - 875# WHP. Blew well down and left open 2-1/2 hrs - last gauge - 1,160,000 CF/Day, wet (mist w/1/4 stream water).
- 3-29-85 SIP - 1200#. 20 min open flow - 2,295,000 CF/Day; 1st hr - 1,620,000 CF/Day; 2nd & 3rd hrs - 1,449,000 CF/Day. All tests wet. 4th hr - same. 5th & 6th hrs - 1,404,000 CF/Day. Treated w/250 gal., 15% demulsion and 56 perf. balls. Followed with 1000 gal., 15% demulsion. Max. press. - 500#. Treated at 5 BPM from 200# to 500#. Could not see balls hit. Let set 30 minutes and blow well back. Blew well for 2 hrs. Last hr - 3,672,000 CF/Day.
- 3-30-85 SIP - 1200#. 20 min. open flow - 4,932,000 CF/Day. 1st & 2nd hrs - 4,023,000 CF/Day; 3rd thru 7th hrs - 3,672,000 CF/Day. All tests were 1/4 stream of water and a mist.
- 3-31-85 Shut down.
- 4-1-85 SIP - 1200#. Blew well to atmosphere for 30 minutes. Pumped down well to kill it. Ran 5-1/2" permanent plug and set at 3276'. Perforated from 2866' to 2877' w/4 shots per ft. D.P.'s. Swabbed well down. Slight show of gas. TSTM. 1/2 hr test - dry. Gas TSTM. Treated w/500 gal., 15% demulsion. Hole loaded 6 bbl. late. Max. press. - 325#. Treated at 4 BPM at 325#. ISIP - 200#. On vacuum in 2 minutes. Let set 30 min. and swab load back. After swab down gauged 84,910 CF/Day. 1/2 hr - 34,690 CF/Day - 12 Bbl. water. 1st hr - 26 Bbl. water. After swab down - 84,910 CF/Day.

4-1-85
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 2-28-85
 CONSERVATION DIVISION
 Wichita, Kansas

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- 4-2-85 SIP - 250#. Overnight fillup - 2000'; Swab down - 48 Bbl. After swab - 40,450 CF/Day. 1/2 hr test - 12 Bbl. water. Got tubing on location.
- 4-3-85 Ran 5-1/2" packer on 2-3/8" tubing. Set packer at 2910' and tested to 1500#. Held OK. Pulled packer up to 2826' and pressured annulus to 600#. Took injection rate - 3 BPM at 650#. Squeezed w/160 sx common cement. Squeezed to 2500#. Washed up and repressured to 1500#. Released packer and pulled tubing and packer.
- 4-4-85 Drilled up 35' cement.
- 4-5-85 Drilled up 15' of cement and cleaned out to plug. Test perfs and holding OK. Loaded hole and drilled out plug at 3276'. Cleaned out to TD - ~~3440'~~ 3400'. Swabbed well and kicked off for 2 hrs. and well back to normal. Tore down cable tool.

APR 07 1986
KANSAS GEOLOGICAL SURVEY
WICHITA BRANCH

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