

RELEASED

DATE: MAY 1987 CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
FROM CONFIDENTIAL

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
City/State/Zip Wichita, Ks. 67202

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

Operator Contact Person Jean Angle
Phone 316-263-1201

Contractor: License # 5302
Name Red Tiger Drilling Co.

Wellsite Geologist: Richard Parker
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
Well Name
Comp. Date Old Total Depth.....

WELL HISTORY

Drilling Method:

- Mud Rotary Air Rotary Cable

04-20-85	5-10-85	1-21-86
Spud Date	Date Reached TD	Completion Date
5650'	4910'	
Total Depth	PBTD	

Amount of Surface Pipe Set and Cemented at 78 feet
 Multiple Stage Cementing Collar Used? Yes No
 If yes, show depth set. 3500 feet
 If alternate 2 completion, cement circulated
 from.....feet depth to.....w/.....SX cmt

SIDE ONE

4/21/87
KCC
Inc

API NO. 15-033,20,677
 County Comanche
 C-S/2 SE NE Sec. 32 Twp. 33S Rge. 17W East West

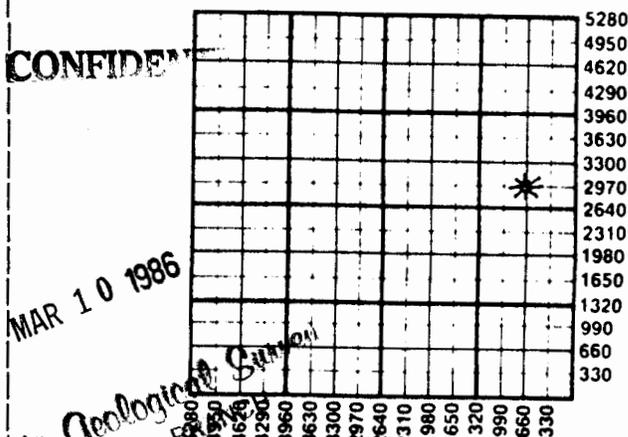
2970 Ft North from Southeast Corner of Section
 660 Ft West from Southeast Corner of Section
 (Note: Locate well in section plat below)

Lease Name Harper "A" Well #1
 Field Name Beals

Producing Formation

Elevation: Ground 1830' KB 1835'

Section Plat



WATER SUPPLY INFORMATION

Disposition of Produced Water: Disposal Repressuring
 Docket # CD-98,329 C-22,304

Questions on this portion of the ACO-1 call:
 Water Resources Board (913) 296-3717

Source of Water:
 Division of Water Resources Permit # T85-401

Groundwater 3100 Ft North from Southeast Corner
 (Well) 2450 Ft West from Southeast Corner of
 Sec 33 Twp 33 Rge 17 East 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. #)

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.

..... of 12 months if requested

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SIDE TWO

Operator Name Frontier Oil Company Lease Name Harper "A" Well # 1

Sec. 32 Twp. 33S 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 Yes No
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No

Formation Description
 Log Sample

DST 1 (3365-3412) 6045-45-30 wk to gd blo both ops. Rec 480' MW Chlor 66,000. IF 87-203 FF 213-262 ISI 1223 FSI 1174

DST 2 (3250-3360) 60-45-60-45 strg blo both ops. GTS in 4" 20" thru 60" op 639,000 CF. Rec 320' GCM IF 213-262 FF 262-252 ISI 1320 FSI 1315

DST 3 (4848-4915) 60-45-60-45 GTS 28" 30" thru 60" op 38,000 CF Rec 110' GCM IF 78-102 FF 93-102 ISI 1757 FSI 1708

DST 4 (5029-5130) 60-45-60-60 GTS 18" 60" op 15,400 CF Rec 265' GCM IF 116-155 FF 155-184 ISI 781 FSI 790

DST 5 (5122-5250) 30-45-45-60 wk to gd blo both ops Rec 890' GIP, 125' GCM IF 103-113 FF 123-135 ISI 847 FSI 761

Name	Top	Bottom
Anhydrite	802	(+1033)
Herrington	2311	(- 476)
Winfield	2387	(- 5)
Fort Riley	2510	(- 675)
Cottonwood	2843	(-1008)
Foraker	3040	(-1205)
Woodsiding	3196	(-1361)
Stotler	3333	(-1498)
Zeandale	3395	(-1560)
Emporia	3460	(-1625)
Howard	3552	(-1717)
Topeka	3660	(-1825)
Deercreek	3704	(-1869)
LeCompton	3834	(-1999)
Queen Hill	3922	(-2087)
Heebner	4125	(-2290)
Toronto	4137	(-2302)
Lansing-KC	4328	(-2493)
Base KC	4811	(- 5)
Marmaton	4860	(-3025)

CONTINUED ON PAGE 2.

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
Surface	12-1/4"	8-5/8"	20#	428'	Common	250	2% gel 3% cc
Production	7-7/8"	4-1/2"	10-1/2#	5649'	Common	300	10% salt
DV	"	"	"	3500'	Common	150	10% salt

PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	
Shots Per Foot	Specify Footage of Each Interval Perforated		Depth
4	3346 to 3360'		4371-4378'
4	4371 to 4373'	1500 gal. 15% regular	4368-4371'
4	4368 to 4371'	500 gal. 15% demulsion	4922-4930'
4	4922 to 4930'	1000 gal. 15% demulsion	Regular acid
4	4955 to 4959'	1000 gal. 15% demulsion & 100	
4	5580-5586 5566-5574 5545-5552'	2000 gal. 28% INS.	

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SIDE TWO (Page Two)

ACO-1 WELL HISTORY

OPERATOR Frontier Oil Company LEASE NAME Harper "A" # 1 SEC. 32 TWP. 33S RGE. 17W

FILL IN WELL LOG AS REQUIRED:

Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

SHOW GEOLOGICAL MARKERS, LOGS RUN, OR OTHER DESCRIPTIVE INFORMATION.

FORMATION DESCRIPTION, CONTENTS, ETC.	TOP	BOTTOM	NAME	DEPTH
DST 6 (5524-5600) 60-45-45-60 1st op wk to strg blo 2nd op GTS in 10" 60" GA 10,700 CF Rec 65' GCM IF 58-58 FF 48-48 ISI 1416 FSI 1621				
DST 7 (4940-5054) 30-45-45-45 1st op wk gd blo in 5" 2nd op gd blo TO Rec 1760' GIP, 70'M IF 116-116 FF 116-136 ISI 609 FSI 378				
DST 8 (4356-4390) 60-45-60-45 strg blo 1st op GTS in 2" 60" GA 40,900 CF Rec 1900' GSW IF 300-523 FF 599-886 ISI 1397 FSI 1388.				
DST 9 (5600-5650) 30-30-30-30 1st op wk blo 1" in bucket 2nd op wk blo dd 20" Rec 40'M IF 58-58 ISI 72 FSI 68				
RTD 5650'				
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<u>continued from page 1.</u>				
Altamont	4885	(-3050)		
Pawnee	4922	(-3087)		
Fort Scott	4950	(-3115)		
Cherokee	4966	(-3131)		
Mississippi	5023	(-3188)		
Viola	5536	(-3701)		
RTD	5650	(-3815)		

TUBING RECORD	Size	Set At	Packer at	Liner Run	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
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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 9bbls	6,000 MCF	14. Bbls	N/A	CFPB

METHOD OF COMPLETION

Production Interval

Disposition of gas: Vented Sold

Open Hole Perforation
 Other (Specify)

...3346...3360'

**KANSAS GEOLOGICAL SURVEY
WICHITA BRANCH**

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