

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

API NO. 15-065-22,354
County...Graham
...C...SW...NE...Sec.19...Twp.6...Rge.22... East
... West

Operator: License # 08000
Name PanCanadian Petroleum Company
Address 600 - 17th Street, Suite 1800
City/State/Zip Denver, CO 80202

3300 Ft North from Southeast Corner of Section
1980 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

Purchaser Diamond Shamrock

Lease Name Demuth 32-19 Well # 4

Operator Contact Person David C. Williams
Phone (303) 825-8371

Field Name Penn

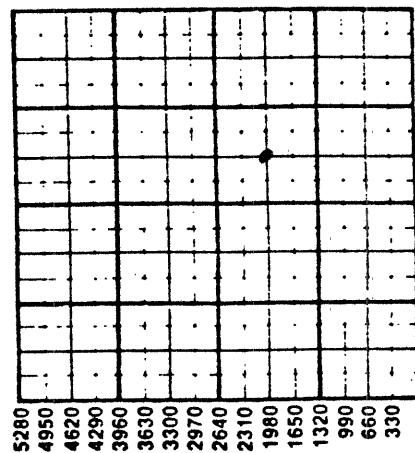
Producing Formation Lansing-Kansas City

Elevation: Ground 2418' 2423' KB

Contractor: License # 6033
Name Murfin Drilling Company

Wellsite Geologist Daniel Watterson
Phone (303) 825-8371

Section Plat



Designate Type of Completion
 New Well Re-Entry Workover
 Oil SWD Temp Abd
 Gas Inj Delayed Comp.
 Dry Other (Core, Water Supply etc.)

If ONNO: old well info as follows:
Operator
Well Name
Comp. Date Old Total Depth

WATER SUPPLY INFORMATION

Disposition of Produced Water: Disposal
Docket # Repressuring

WELL HISTORY
Drilling Method:
 Mud Rotary Air Rotary Cable

Spud Date 03/05/87 Date Reached TD 03/12/87 Completion Date 03/14/87
Total Depth 3974' PBT

Amount of Surface Pipe Set and Cemented at 309 feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set 2086 feet
If alternate 2 completion, cement circulated from 2086 feet depth to surf. w/ 210 SX cmt
Cement Company Name Halliburton
Invoice #

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

Source of Water:
Division of Water Resources Permit # 787-90

Groundwater 3290 Ft North from Southeast Corner
(Well) 1980 Ft West from Southeast Corner of
Sec 19 Twp 6 Rge 22 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 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 James D. Keisling
Title Coordinator U.S. Operations Date 03/13/87

Subscribed and sworn to before me this 26th day of March 1987
Notary Public Barbara Wolf
My Commission Expires February 29, 1988

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)

4-1-87

Sec. 19 Twp. 6 N. Rge. 22 W.

Operator Name PanCanadian Petroleum Company Lease Name Demuth 32-19 Well # 4

Sec. 19 Twp. 6 Rge. 22 East West County Graham

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

DST #1 3698-3738 L-KC D, E & F zones
 OP 10, SI 45, OP 60, SI 90
 Rec 240' Mdy wtr (40% M) 2220' Mdy wtr (5% M)
 IHP 1940, FHP 1905, IFP 353-674, FFP 743-1170
 SIP 1205-1205

DST #2 3789-3824 L-KC I & J zones
 OP 10, SI 45, OP 60, SI 90
 Rec 110' Clean O, 120' OCM (20% O) 180' HOCM (35% O)
 HP 1974-1951, IFP 79-83, FFP 134-189, SIP 228-228

DST #3 3819-3854 L-KC K & L zones
 OP 15, SI 45, OP 60, SI 90
 Rec 10' M w/o specks
 HP 2087-2032, IFP 20-20, FFP 22-26, SIP 1248-1202

CORE #1 L-KC I & J, 3794-3824'
 CORE #2 L-KC K & L, 3824-3840'

Name	Formation Description	
	Top	Bottom
Stone Corral		
Anhydrite		
Topeka	3427	-1004
Heebner	3621	-1198
Toronto	3648	-1225
Lansing-Kansas City		
"A" Zone	3664	-1241
"B" Zone	3694	-1271
"D" Zone	3712	-1289
"H" Zone	3782	-1359
"I" Zone	3804	-1381
"J" Zone	3812	-1389
"K" Zone	3835	-1412
Base of L-KC	3854	-1431
Conglomerate	3914	-1491
Total Depth	3974	-1551

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"	8-5/8"	24#	309'	Cl "A"	205	CaCl ₂ (3%) PLUS 2% Gel
Production (1st)	7-7/8"	4 1/2"	10.5#	3974'	Cl "A"	290	2% CaCl ₂
Production (2nd)	7-7/8"	4 1/2"	10.5#	2086'	Hays Lite	210	10% CaCl ₂

Shots Per Foot	Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
2	3812-2817'	HCl Acid	same
		4250 gal 15% PLUS	
		4000 gal gel	

TUBING RECORD Size 2-3/8" Set At 3815' Packer at none Liner Run Yes No

Date of First Production March 20 1987 Producing Method Flowing Pumping Gas Lift Other (exp) 3-9-88

Estimated Production Per 24 Hours	Oil Swab Rate (est)	Gas TSTM MCF	Water Swab Rate (est)	Gas-Oil Ratio TSTM CFPB	Gravity 38 deg
	54 bbl/d Bbls		4 BW/D Bbls		

METHOD OF COMPLETION Vented Open Hole Perforation Solid Other (Specify) 3812-3817' Used on Lease Dually Completed Coningled

RELEASED
 3-9-88
 MAY 0 9 1988
 FROM CONFIDENTIAL