

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1
September 1999
Form Must Be Typed

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Operator: License # 33075
Name: CMS Pan Gas Storage Co. LLC dba Southwest Gas Storage
Address: PO Box 4967
City/State/Zip: Houston, TX 77210-4967
Purchaser: _____
Operator Contact Person: David M. McQuilling
Phone: (713) 989-7493
Contractor: Name: CP Drilling
License: 32525

JAN 10 2005

KCC WICHITA

Wellsite Geologist: _____
Designate Type of Completion:
____ New Well ____ Re-Entry ____ Workover
____ Oil ____ SWD ____ SIOW ____ Temp. Abd.
____ Gas ____ ENHR ____ SIGW
____ Dry Other (Core, WSW, Expl. Cathodic etc)

If Workover/Re-entry: Old Well Info as follows:
Operator: N/A
Well Name: Olpe 10.0 Grounded No. 1

Original Comp. Date: _____ Original Total Depth: _____
____ Deepening ____ Re-perf. ____ Conv. to Enhr./SWD
____ Plug Back ____ Plug Back Total Depth
____ Commingled Docket No. _____
____ Dual Completion Docket No. _____
____ Other (SWD or Enhr.?) Docket No. _____

<u>6/4/04</u>	<u>6/5/04</u>	<u>6/5/04</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 111-20432-0000
County: Lyon
____ NE ____ SE ____ NW Sec. 7 Twp. 20 S. R. 13 East West
1460 feet from S (N) (circle one) Line of Section
2685 feet from (E) W (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
(circle one) (NE) SE NW SW
Lease Name: Whitaker Well #: No. 1

Field Name: _____
Producing Formation: _____
Elevation: Ground: 1080 Kelly Bushing: _____
Total Depth: 300 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at 70 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set _____ Feet
If Alternate II completion, cement circulated from _____
feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit) Oct 3 HJR 2/25/08
Chloride content _____ ppm Fluid volume _____ bbls
Dewatering method used _____
Location of fluid disposal if hauled offsite: _____
Operator Name: _____
Lease Name: _____ License No.: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Docket No.: _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of 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 geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. 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: [Signature]
Title: OWNER Date: 12-16-04
Subscribed and sworn to before me this 16th day of December,
2004
Notary Public: Jessie A. Porter #04000353
Date Commission Expires: January 14, 2008

KCC Office Use ONLY
____ Letter of Confidentiality Received
If Denied, Yes Date: _____
____ Wireline Log Received
____ Geologist Report Received
____ UIC Distribution

Operator Name: CMS Pan Gas Storage Co. LLC dba Southwest Gas Storage Lease Name: Whitaker Well #: No. 1
 Sec. 7 Twp. 20 S. R. 13 East West County: Lyon

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems 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 test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken Yes No
 (Attach Additional Sheets)
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No
 Electric Log Run Yes No
 (Submit Copy)
 List All E. Logs Run:

Log Formation (Top), Depth and Datum Sample
 Name Top Datum

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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
	17.5"	10.75"	7.532	70'	Neat	70	water / 5 gallons per sack

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type		Acid, Fracture, Shot, Cement Squeeze Record		Depth
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used)		

TUBING RECORD		Size	Set At	Packer At	Liner Run		
					<input type="checkbox"/> Yes <input type="checkbox"/> No		
Date of First, Resumerd Production, SWD or Enhr.			Producing Method				
			<input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity		

Disposition of Gas Vented Sold Used on Lease (If vented, Submit ACO-18.)

METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled Other (Specify) _____

Production Interval _____



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JOB NO. 311100

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INSTALLATION DATE 6/4/04

JOB TITLE INSTALLATION OF CATHODIC PROTECTION DEEP ANODE BED

JOB SITE Olpe 10.0 No.1 Bed (North) LYON COUNTY, KANSAS

COMPANY PANHANDLE ENERGY

Rotary: 300' Cable Tool: 0 Casing: 70' of 10" PVC Pipe
Groundbed Depth: 300' Diameter: 10" Cokesbreeze Anodes: 6 EA. - 1.25"X4' MMO MP TUBULAR

Depth Ft.	DRILLERS LOG	TO STRUCTURE			No Coke	With Coke	Depth Top of Anode	
		E	I	R	R	R	No.	Ft.
0-4	Sand		CASING					
4-24	Yellow Clay		CASING					
24-70	Gray Shale		CASING					
70-112	Gray Shale							
112-143	Limestone							
143-201	Shale							
201-210	lime							
210-300	Shale							
Exploring Anode Log								
70	Gray Shale	13.89	1.10					
75	Gray Shale	13.89	1.20					
80	Gray Shale	13.89	1.10					
85	Gray Shale	13.89	1.20					
90	Gray Shale	13.89	1.10					
95	Gray Shale	13.89	1.00					
100	Gray Shale	13.89	1.10					
105	Gray Shale	13.89	1.10					
110	Gray Shale	13.89	1.00					
115	Limestone	13.89	0.70					
120	Limestone	13.89	0.70					
125	Limestone	13.89	0.90					
130	Limestone	13.89	0.70					
135	Limestone	13.89	0.60					
140	Limestone	13.89	0.80					
145	Shale	13.89	0.90					
150	Shale	13.89	1.00					
155	Shale	13.89	1.00					
160	Shale	13.89	1.20					
165	Shale	13.89	0.80					
170	Shale	13.89	1.00					
175	Shale	13.89	1.00					
180	Shale	13.89	1.00					
185	Shale	13.89	1.00					
190	Shale	13.89	1.00					
195	Shale	13.89	1.00					

