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SIDE ONE

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

SEP 14 1991

FROM CONFIDENTIAL

API NO. 15- 093-21,185

County Kearny

C NW NW Sec. 14 Twp. 24S Rge. 37 X East 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 Gillette Well # 1-14

Field Name Hartland

Producing Formation St. Louis

Elevation: Ground 3252 KB 3264

Total Depth 5080 PBTD 5029

Operator: License # 5363

Name: 5363

Address 970 Fourth Financial Center

City/State/Zip Wichtia, KS 67202

Purchaser: Central Crude Corporation

Operator Contact Person: Evan Mayhew

Phone (316) 265-3311

Contractor: Name: BEREDCO INC

License: 5147

Wellsite Geologist: Ed Grieves

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Wichita, Kansas

Designate Type of Completion
X New Well ___ Re-Entry ___ Workover

X Oil ___ SWD ___ Temp. Abd.
___ Gas ___ Inj ___ Delayed Comp.
___ Dry ___ Other (Core, Water Supply, etc.)

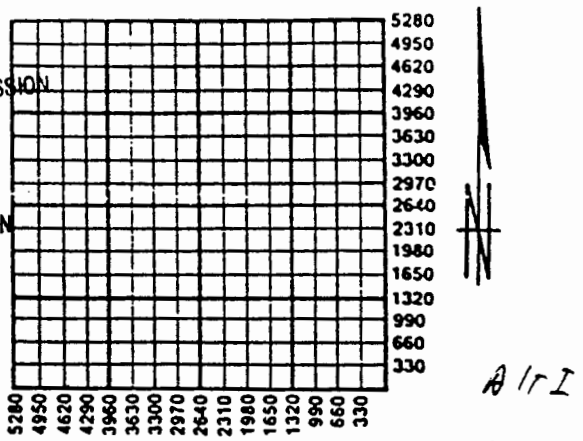
If OWWO: old well info as follows:
Operator:

Well Name:

Comp. Date ___ Old Total Depth ___

Drilling Method:
X Mud Rotary ___ Air Rotary ___ Cable

6/13/91 Spud Date | 6/28/91 Date Reached TD | 8/15/91 Completion Date



Amount of Surface Pipe Set and Cemented at 1639' Feet

Multiple Stage Cementing Collar Used? X Yes ___ No

If yes, show depth set 3249' Feet

If Alternate II completion, cement circulated from ___

feet depth to ___ w/ ___ sx cmt.

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. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

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 Evan C Mayhew

Title Division Engineer Date 8/28/91

Subscribed and sworn to before me this 28 day of August, 19 91.

Notary Public Willa J Martin

Date Commission Expires 12-17-94

WILLA J. MARTIN
Notary Public - State of Kansas
My Appt. Expires 12-17-94

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) ES

Form ACO-1 (7-89)

W T E-N S -I I I

SIDE TWO

Operator Name BEREXCO INC Lease Name Gillette Well # 1-I4

Sec. 14 Twp. 24S Rge. 37 ☐ East ☒ West County Kearny

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 (Attach Additional Sheets.) ☒ Yes ☐ No

Samples Sent to Geological Survey ☒ Yes ☐ No

Cores Taken ☐ Yes ☒ No

Electric Log Run (Submit Copy.) ☒ Yes ☐ No

see attached sheet

Formation Description

☐ Log ☒ Sample

Name	Top	Bottom

see attached sheet

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 1/4	8 5/8	23#	1639	Poz/LiteC	550/150	65/35 pos.
Production	7 7/8	5 1/2	14#	5078	Thixset	275	
			DV Tool @	3249	Lite/Com	250/50	

PERFORATION RECORD Shots Per Foot	Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
2	4924-38'	2000 gals 15% HCL	4924-38'
4	4950-52'	8000 gals 20% HCL w/11,000 gals gel water	4059-52'

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2 3/8	5003	none	☐ Yes ☒ No

Date of First Production	Producing Method
8/18/91	☐ Flowing ☒ Pumping ☐ Gas Lift ☐ Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	40	0	84	-	33°

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

METHOD OF COMPLETION ☐ Open Hole ☒ Perforation ☐ Dually Completed ☐ Commingled ☐ Other (Specify)

Production Interval 4924-52'

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DRILL STEM TESTS
Gillette #1-14
NW NW Sec 14-24S-[illegible]37W
Kearny County, KS

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DST #1 Toronto 3733-3760'
15(30)60(120)
BLOW: weak-strong 6"
BLOW: weak-strong 10"
IH: 1812
IFP: 82/218
ISIP: 969
FFP: 291/415
FSIP: 969
FH: 1972
T°: 116°
Rec. 240' SGWMCO (90% oil, 5% gas, 5% wtr, 20% mud), & 360' SGOWCM (15% gas, 15% oil, 35% wtr, 35% mud) & 180' G&OMCW (20% gas, 5% oil, 60% wtr, 15% mud) & 180' OGW (5% gas, 1% oil, 94% wtr)
NOTE: Rec fluid Ru 30 @ 74°F (cl 21,000 ppm v. pit cl 4700 ppm)

DST #2 Lansing "A" 3785-3900
15(30)60(120)
BLOW: weak, increasing to fair off btm of bucket in 10 min.
BLOW: weak, increasing to fair off btm of bucket in 14 min.
IH: 1822
IFP: 31/166
ISIP: 969
FFP: 218/426
FSIP: 979
FH: 1902
T°: 116°F
Rec. 879' TF - 5' slight gas & wtr cut oil (70% oil, 5% gas, 5% mud, 20% wtr.)
874' sulfur wtr. Rec fluid cl - 21,000 ppm, pit 4,000 ppm

DST #3 Lansing "B" 3820-3848'
15(30)60(120)
BLOW: weak blow, increasing to 4" in bucket (remained steady)
BLOW: weak blow, increasing to 2" in bucket (remained steady)
IH: 1852
IFP: 52/62
ISIP: 939
FFP: 83/114
FSIP: 1000
FH: 1842
T°: 116°F
Rec. 290' TF - 110' gassy oil (75% oil, 25% gas) & 180' gas and oil cut mud (60% mud, 25% oil, 10% gas, 5% wtr)
Volume of wtr rec was not enough to determing cl content. Oil gravity 27° @ 80°F. Build up profile on DST curves very good.

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GEOLOGICAL REPORT

Gillette #1-14
NW NW Sec 14-24S-3W
Kearny County, KS

	Sample Tops		Graber #1-15 Correlation			Log Tops		
Formation	Depth	Datum	Depth	Datum	Corr.	Depth	Datum	Corr.
Base Heebner	3735	-471	3746	-479	+8			
Toronto	3743	-479	3754	-487	+9			
Lansing	3790	-526	3798	-531	+5			
Lansing "B"	3842	-578	3864	-597	+19			
Lower Lansing	3858	-594	3872	-605	+11			
Lansing "C"	3869	-605	3886	-619	+14			
Lansing "F"	3954	-690	3966	-699	+9			
Lansing "G"	3944	-730	4008	-741	+11			
Kansas City A	4119	-855	4122	-855	0			
Marmaton	4299	-1035	4310	-1043	+8			
Pawnee	4395	-1131	4400	-1133	+2			
Ft. Scott	4428	-1164	4436	-1169	+5			
Morrow	4689	-1425	4706	-1439	+14			

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