

16-23-34

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

COPY

API NO. 15- 055-21192

County FINNEYNE NW Sec. 16 Twp. 23 Rge. 34 X VOperator: License # 9953Name: HARRIS OIL AND GAS COMPANYAddress 410 17TH STREET, SUITE 2310City/State/Zip DENVER, COLORADO 80202Purchaser: KOCH OIL COMPANYOperator Contact Person: RUD HARRISPhone (303) 623-3336Contractor: Name: ALLEN DRILLING COMPANYLicense: 5418Wellsite Geologist: BOB KOSAREKDesignate Type of Completion
☒ New Well ☐ Re-Entry ☐ Workover

☒ Oil ☐ SWD ☐ SLOW ☐ Temp. Abd.
☐ Gas ☐ ENHR ☐ SIGW
☐ Dry ☐ Other (Core, WSW, Expl., Cathodic, etc.)

If Workover/Re-Entry: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

☐ Deepening ☐ Re-perf. ☐ Conv. to Inj/SWD
☐ Plug Back ☐ PSTD
☐ Commingled ☐ Docket No. _____
☐ Dual Completion ☐ Docket No. _____
☐ Other (SWD or Inj?) ☐ Docket No. _____

5-13-93 5-25-93 6-24-93
Spud Date Date Reached TD Completion Date

660 Feet from S (circle one) Line of Section1980 Feet from E (circle one) Line of SectionFootages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)Lease Name GARDEN CITY CO Well # 3-16Field Name SEQUOYAHProducing Formation MORROWElevation: Ground 2955 KB 2968Total Depth 4858 PSTD 4825Amount of Surface Pipe Set and Cemented at 1630 FeetMultiple Stage Cementing Collar Used? ☒ Yes ☐ NoIf yes, show depth set 3010 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)Chloride content 5000 ppm Fluid volume 1000 bblsDewatering method used CUT WINDOWS IN WALL TO AID INNATURAL EVAPORATION
Location of fluid disposal if hauled offsite:Operator Name N/ALease Name RELEASED License No. _____

Quarter Sec. _____ Twp. _____ S Rng. _____ E/W

County SEP 6 1994 Docket No. _____

FROM CONFIDENTIAL

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, 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 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 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 W.G. Harris IIITitle PRESIDENT Date 7-9-93Subscribed and sworn to before me this 9TH day of JULY93Notary Public Allen E. BerryDate Commission Expires NOVEMBER 23, 1995

K.C.C. OFFICE USE ONLY
F ☒ Letter of Confidentiality Attached
C ☐ Wireline Log Received
C ☐ Geologist Report Received

Distribution
☒ KCC ☐ SWD/Rep ☐ NGPA
☐ KGS ☐ Plug ☐ Other (Specify) TS

Operator Name HARRIS OIL AND GAS COMPANYLease Name GARDEN CITY CO.Well # 3-16Sec. 16 Twp. 23 Rge. 34☐ East☒ WestCounty FINNEY

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
(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: **COMP. DENSITY NEUTRON
DUAL INDUCTION
MICRO LOG**

☒ Log ☐ Sample
Formation (Top), Depth and Datum

Name	Top	Datum
HEEBNER	3739	- 771
TORONTO	3754	- 786
L. KANSAS CITY	3786	- 818
MARMATON	4257	-1289
CHEROKEE	4387	-1419
ATOKA	4493	-1525
MORROW	4601	-1633
ST. LOUIS	4709	-1741

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"	24#	1632	LITE CLASS	150	2ZCC 2ZCC
PRODUCTION	7 7/8"	5 1/2"	14#	4825	CLASS H	200	6/10Z HALAD 322

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
Perforate				
Protect Casing	3010	LITE CLASS C	150/50	2ZCC 2ZCC
Plug Back TD				
Plug Off Zone				

RELEASED

SEP 6 1994

FROM CONFIDENTIAL

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4 SPF	4638-46 BREAKDOWN-	1500 GAL DIESEL W/ MUTUAL SOLVENT	
	FRAC -	16,000 GAL DIESEL AND 21,900#	16/30 SAND
TUBING RECORD			
Size 2 7/8"	Set At 4655	Packer At 4589	Liner Run ☐ Yes ☒ No
Date of First, Resumed Production, SWD or Inj. 6-26-93		Producing Method ☐ Flowing ☒ Pumping ☐ Gas Lift ☐ Other (Explain)	
Estimated Production Per 24 Hours	Oil Bbls. 150	Gas Mcf TSTM	Water Bbls. 6
		Gas-Oil Ratio 0:1	Gravity 38

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

MORROW

16-23-34w

Harris Oil & Gas
 13-16 Garden City
 NE-NW 16-23S-34W
 Finney County, Kansas

RELEASED

SEP 6 1994

RECEIVED
 STATE CORPORATION COMMISSION

JUL 12 1995

KCC

JUL 9

CONSERVATION DIVISION
 Wichita, Kansas

CONFIDENTIAL

FROM CONFIDENTIAL

DRILL STEM TEST REPORTS

DST # 1, 4025-4040', Lansing 'H'. Initial open, opened with a weak 1" blow, building to strong blow bottom of bucket in 4 minutes. Final open, weak 1/2" building to strong blow in bottom of bucket in 6 minutes. Times: initial open, 30 minutes; initial shut-in, 60 minutes; final open, 60 minutes; and final shut-in, 120 minutes. Recovered 215' clean, gassy oil, 27 API gravity 215' gassy oil and muddy water, 275' water w/ a scum of oil, and 630' sulfurous salt water. Pressures: Initial Hydrostatic, 2006#; Initial Flowing, 146-387#; Initial Shut-in, 1119#; Final Flowing, 412-617#; Final Shut-in, 1119#; and Final Hydrostatic, 1956#.

DST #2, 41632-4177', Kansas City 'B'. Initial open, opened with a very weak 1/4" blow, built to 1-1/2" in 22 minutes and stabilized. Final open, opened with no blow, slowly built to 1 -1/4" at end of final open. Times: initial open, 30 minutes; initial shut-in, 60 minutes; final open, 60 minutes; final shut-in, 120 minutes. Recovered 3' clean oil, 35 API gravity, 70' mud cut water with a scum of oil, and 90' slightly oil and gas cut mud. Pressures: Initial Hydrostatic, 2048#; Initial Flowing, 14-44#; Initial Shut-in, 1148#; Final Flowing, 65-100#; Final Shut-in, 1152#; Final Hydrostatic, 2029#.

DST #3, 4200-4214', Kansas City 'C'. Initial open, weak 1/2" to strong blow in bottom of bucket in 5 minutes. Final open, weak 1/2" blow to string bottom of bucket in 8 minutes. Times: initial open, 30 minutes; initial shut-in, 60 minutes; final open, 60 minutes; final shut-in, 120 minutes. Pipe got stuck in hole above test tool, dropped circulating bar, observed slight show of oil and thin mud at the flowline during circulating, spotted 33 barrels of oil to pull free. Sampler recovered 501.5 cc oil, 2248.5 cc salt water and 1.58 cfg. By doubling flowing pressures to estimate amount of pipe recovery, it was estimated that it would have recovered 188' oil, 920' salt water. Pressures: Initial Hydrostatic, 2112#; Initial Flowing, 63-321#; Initial Shut-in, 1236#; Final Flowing, 359-554#; Final Shut-in, 1236#; Final Hydrostatic, 2091#.

DST #4, 4270-4280', Marmaton 'A'. Initial open, opened with strong blow to bottom of bucket in 1 minute, well blew into initial shut-in. Final open, strong blow to bottom of bucket in 2 minutes, gas to surface in 10 minutes. Gas gauged on 1/4" orifice @ 2.9 MCF/D in 15 minutes, building to 6.3 MCF/D in 60 minutes. Times: initial open, 30 minutes; initial shut-in, 60 minutes; final open, 60 minutes; and final shut-in, 120 minutes. Recovered 2145' highly gas cut oil and 240' mud cut gassy oil. Pressures: Initial

ORIGINAL

KOC

JUL 9

CONFIDENTIAL

Harris Oil & Gas
3-16 Garden City
NE-NW 16-23S-34W
Finney County, Kansas

Hydrostatic, 2048#; Initial Flowing, 182-351#; Initial Shut-in, 1223#; Final Flowing, 404-667#; Final Shut-in, 1223#; and Final Hydrostatic, 2006#.

RELEASED

SEP 6 1994

FROM CONFIDENTIAL