

CONFIDENTIAL

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

Operator: License # 05988  
Name: Halliburton Oil Producing  
Address 525 Central Park Drive  
Central Park I - Suite 210  
City/State/Zip Oklahoma City, OK 73103  
Purchaser: Rangeline Corporation  
Operator Contact Person: Tom Carroll  
Phone (405) 525-3371  
Contractor: Name: H-40 Drilling, Inc.  
License: 30692  
Wellsite Geologist: Kevan Marsh

## 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: RELEASEDWell Name: JUN 2 8 1995Comp. Date Old Total Depth

☐ Deepening ☐ Re-perforation ☐ Plug Back ☐ Docket No. PSTD  
☐ Commingled ☐ Docket No.   
☐ Dual Completion ☐ Docket No.   
☐ Other (SWD or Inj?) Docket No.

2/20/94 2/28/94 4/18/94  
Spud Date Date Reached TD Completion Date

API NO. 15- 119-20893  
County Meade  
E/2 - NW - NW Sec. 23 Twp. 34S Rge. 26 X  
660 Feet from S (circle one) Line of Section  
1125 Feet from E (circle one) Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
NE, SE, NW or SW (circle one)  
Lease Name Goodnight Well # 1-23  
Field Name McKinney  
Producing Formation Morrow  
Elevation: Ground 2247' KB 2260'  
Total Depth 6,115' PSTD  
Amount of Surface Pipe Set and Cemented at 882 Feet  
Multiple Stage Cementing Collar Used? X Yes  No  
If yes, show depth set  Feet  
If Alternate II completion, cement circulated from   
feet depth to  w/  sz. cement.  
Drilling Fluid Management Plan ALT 1 JH 8-22-94  
(Data must be collected from the Reserve Pit)  
NOTE: What little fluid was in pit has evaporated.  
Chloride content  ppm Fluid volume 0 bbls  
Dewatering method used Evaporation  
Location of fluid disposal if hauled offsite:  
Halliburton Oil Producing Co.  
Operator Name   
Lease Name Goodnight #1-23 License No. 05988  
NW Quarter Sec. 23 Twp. 23S Rge. 26 X  
County Meade Docket No.

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 for CONFIDENTIALITY 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 Tom Carroll  
Tom Carroll, Vice President/Operations

Date 5/27/94Governs to before me this 27th day of May

GINNA L. HAWTHORNE  
GINNA L. Hawthorne

5/7/96

K.C.C. CONFIDENTIALITY TICKETS		
<input checked="" type="checkbox"/> F	<input checked="" type="checkbox"/> Letter of Confidentiality Attached	
<input checked="" type="checkbox"/> C	<input checked="" type="checkbox"/> Wireline Log Received	
<input checked="" type="checkbox"/> C	<input checked="" type="checkbox"/> Geologist Report Received	
Distribution		
<input checked="" type="checkbox"/> KCC	<input type="checkbox"/> SWD/Rep	<input type="checkbox"/> NGPA
<input checked="" type="checkbox"/> KGS	<input type="checkbox"/> Plug	<input type="checkbox"/> Other (Specify)

Operator Name Halliburton Oil ProducingLease Name GoodnightWell # 1-23Sec. 23 Twp. 34S Rge. 26☐ East  
☒ WestCounty Meade

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.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input checked="" type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Stone Corral Anhy	1219 (+1041)	
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Chase	2571 (-311)	
List All E.Logs Run:		Heebner Shale	4455 (-2195)	
Dual Induction		Lansing Lime	4640 (-2380)	
Density/Neutron		Marmaton Lime	5342 (-3082)	
Microlog		Cherokee Shale	5521 (-3261)	
		Morrow Shale	5824 (-3564)	
		Morrow Sand Zone	5844 (-3584)	
		Chester Lime	5888 (-3628)	
		Total Depth	6115 (-3855)	

### CASING RECORD

Surface ☒ New ☒ Used Production  
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
Conductor		20"		40'	4 yards grout		
Surface	12-1/4"	8-5/8"	24#	882'	Class C	150	2% cc
Production	7-7/8"	5-1/2"	11.5#	6,113'	Light Class A	300 150	2% cc

### 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 Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	5865'-5872'	1500 g 50% foam 50% 7-1/2% FE Acid	

TUBING RECORD	Size 2-3/8	Set At 5965'	Packer At none	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Date of First, Resumed Production, SWD or Inj. 1st gas sales 5/18/94		Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input checked="" type="checkbox"/> Compressor Other (Explain)					
Estimated Production Per 24 Hours	Oil tr	Bbls. 53	Gas Mcf	Water 0	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  
 5865'-5872'

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## II. Primary Zones of Interest

### F. Morrow Sand

5865 - 5872

Sample Analysis: The Morrow consisted of white to light gray sand which was very fine to fine grain, subangular to subrounded, and fairly clean in part. Some of the sample showed abundant individual grains. The sand clusters contained glauconite, kaolinite, and a pale blue-green weathered clay(possibly chlorite). The clusters had fair to poor porosity, were fairly calcareous, and carried no hydrocarbon show other than gas bubbles liberated in the acid. A gas increase of 2 units was registered.

A straddle DST was run to determine the reservoir characteristics of the Morrow. The test recovered 120 feet of gassy drilling mud . Times and pressures are as follows:

DST No.1	5828 - 5958
IHP	2838
IFP	109-109 30 min.
ISIP	281 60 min.
FFP	122-122 90 min.
FSIP	273 180 min.
FHP	2760

KCC

MAY 27

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The test started with a weak blow which increased to a strong blow off the bottom of the bucket in 20 minutes. Gas reached the surface after 66 minutes and reached a rate of 22 mcf/d and was still increasing. Analysis of the blanked off recorder below the lower packer indicates that the tested interval was isolated from above and below. Shut-in pressure readings showed the zone to have good permeability.

Log Analysis: The logs indicate the Morrow to have good porosity and permeability. Favorable water saturation calculations indicate this zone to be commercial.

Conclusion: Based on reservoir rock quality, drillstem test results, and electric log readings, it is believed that the Morrow Sand is capable of commercial production at this location. The final shut-in pressure was approximately 100 pounds greater than the present reservoir pressure in the Easterday 1-23.

RELEASED

JUN 2 8 1995

FROM CONFIDENTIAL

RECEIVED  
STATE CORPORATION COMMISSION

JUN 02 1994

CONSERVATION DIVISION  
Wichita, Kansas