

ORIGINAL

SIDE ONE

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

Operator: License # 30689
Name: Marathon Oil Company
Address P. O. Box 2690
City/State/Zip Cody, WY 82414
Purchaser: People's Natural Gas
Operator Contact Person: R. P. Meabon
Phone (307) 587-4961
Contractor: Name: Excell Drilling
License: 08273
Wellsite Geologist: None

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

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

Drilling Method:
 Mud Rotary Air Rotary Cable
4/13/91 4/14/91 4/26/91
Spud Date Date Reached TD Completion Date

API NO. 15- 181-20287 0000

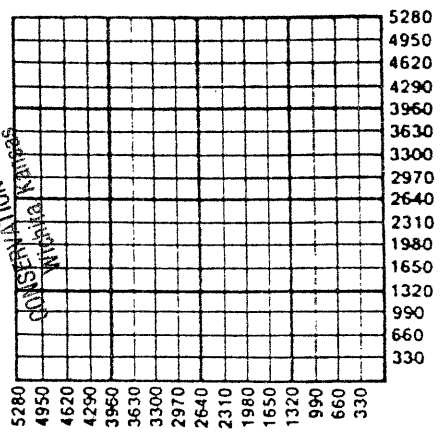
County Sherman ✓
N/2 NW NW Sec. 33 Twp. 7S Rge. 39 East West

3980 ✓ Ft. North from Southeast Corner of Section
4580 ✓ Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

Lease Name Kuhlman E ✓ Well # 2
Field Name Goodland

Producing Formation Niobrara
Elevation: Ground 3622' KB 3627'
Total Depth 1198' PBD 1172'

RECEIVED
STATE CORPORATION COMMISSION
WICHITA, KANSAS
7/27/91
NO. 181-20287-0000



5280
4950
4620
4290
3960
3630
3300
2970
2640
2310
1980
1650
1320
990
660
330
AIT-I

Amount of Surface Pipe Set and Cemented at 385 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set _____ Feet
If Alternate II completion, cement circulated from N/A
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 F. M. Lough for RPM
Title Regulatory Coordinator Date 8/29/91
Subscribed and sworn to before me this 29th day of August, 19 91.
Notary Public Mary E. Hausch

My Commission Expires 11-7-92
County of Park State of Wyoming
My Commission Expires Nov. 7, 1992

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)

SIDE TWO

Operator Name Marathon Oil Company Lease Name Kuhlman E Well # 2
 Sec. 33 Twp. 7S Rge. 39 East County Sherman
 West

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.)

Formation Description

Log Sample

Name	Top	Bottom
Pierre	Surface	1086'
Niobrara	1086'	1128'
Carlile	1128'	TD

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	9-7/8"	7"	20.0	384'	Class A	150	3% CaCl ₂
Production	6-1/4"	4 1/2"	10.5	1194'	Class A	85	.4% FLA 1/4# Cello Flake 2% KCl

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 SPF	1087'-1127'	Frac'd w/40,000 gal. of 50% CO ₂ , 50% gelled water carrying 51,000# 20/40 sand & 49,000# 12/20 sand.	1087'-1127'

TUBING RECORD

Size N/A Set At _____ Packer At _____

Liner Run Yes No

Date of First Production 8/21/91 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
N/A - 0	*125	0	N/A	N/A	N/A

Disposition of Gas:

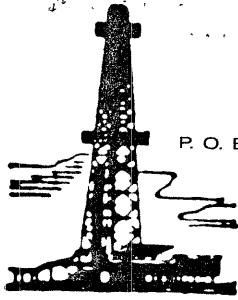
METHOD OF COMPLETION

Production Interval

Vented Sold Used on Lease (If vented, submit ACO-18.)
 Open Hole Perforation Dually Completed Commingled
 Other (Specify) _____

*Volume reflects accessibility to sales line, does not represent absolute open flow potential.

Dist: KCC Orig. & 2cc,WRF,MEB,WTR,ROB,Lamar,Title & Cont.(Hou.)



CEMENTERS, INC.

P. O. BOX 1587 • SCOTTSBLUFF, NE 69363-1587 • (308) 632-8855

Our Invoice

№ 13563

15-181-20287-00-00

ORIGINAL

Date 4-14-91	Well Owner Marathon	Well No. E-2	Lease Kulhman
County Sherman	State KANSAS	Field	
Charge To Marathon	Charge Code		
Address			For Office Use Only
City, State			
Pump Truck No. 1202	Code	Bulk Truck No. 1206	Code
Type of Job	Depth	Ft.	to
Surface	Bottom of Surface	Ft.	to
Plug	Plug Landed @	Ft.	Time On
Production	Pipe Landed @ 1171	Ft.	Time Off

Reference No.	Description	Qty.	Meas.	Unit Price	Amount
	Pump Truck Charge				
	Cement Neat				
	Poz. Mix				
	Calcium Chloride				
	Gel % Flo-Seal %				
	Handling Charge				
	Hauling Charge				
	Additional Pump Charge				
	Mileage P.T.				
	B.T.				
	Plug down:				
	Pressure plug 1200PSI				
	Weld for 3 min				
	Centralizers	6			
	ATU-Shoe	1			
	Plug & latch	1			

855X
 STATE CORPORATION COMMISSION
 STATE CORPORATION COMMISSION
 SEP 5 1991
 CONSERVATION DIVISION
 Wichita, Kansas

Thank you

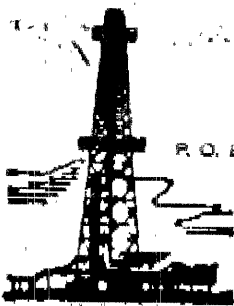
Remarks: .4% fluid loss additive;	Tax Reference Code	Sub Total
1/4# 1/2K Celloflake; disp	State %	Tax
20% RCL	Disc	Total

2590⁰⁰

Truck No.	Code	State Mileage	Nebraska	Colorado	Wyoming	Other	Total Mileage
1202		Pump Truck					
1206		Bulk Truck					

We do not assume any responsibility for any damage or conditions resulting from our services. All pricing is subject to review and revision.

Delivered By Gary S. G. Received by [Signature]
 Customer or His Agent



CEMENTERS, INC.

P. O. BOX 1587 • SCOTTSBLUFF, NE 69363-1587 • (308) 632-8855

15181-20287 ORIGINAL
-00-00
Our Invoice

No 13562

Date 4-13-91 Well Owner Marathon Well 612 Lease THURMAN
 County Sherman State KANSAS Field _____
 Charge To EXLEI OPLG. COMPANY Charge Code _____
 Address Reg #2 For Office Use Only _____
 City, State WPAI, COLORADO
 Pump Truck No. 1702 Code _____ Bulk Truck No. 1706 Code _____
 Type of Job _____ Depth _____ Ft. 385 to _____
 Surface 7' Bottom of Surface _____ Ft. 379 to _____
 Plug _____ Plug Landed @ 359 Ft. Time On _____
 Production _____ Pipe Landed @ 379 Ft. Time Off _____

Reference No.	Description	Qty.	Meas.	Unit Price	Amount
	Pump Truck Charge				
	Cement Neat				
	Poz. Mix				
	Calcium Chloride				
	Gel <input checked="" type="checkbox"/> % Flo-Seal _____ %				
	Handling Charge				
	Hauling Charge				
	Additional Pump Charge				
	Mileage P.T.				
	B.T.				
	Plug <u>Plug down</u>				

Remarks: _____ Tax Reference Code _____ Sub Total 2205.50
 State Col. 3 % Tax 1134.00 74 34.02
 Disc 41% Total 1071.50 70% 2239.52

Truck No.	Code	State Mileage	Nebraska	Colorado	Wyoming	Other	Total Mileage
<u>1702</u>		Pump Truck					
<u>1706</u>		Bulk Truck					

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 Delivered By GARY & SID Received by Rae B...
 Customer or His Agent

15-181-20287-00-00

ORIGINAL

LEASE DISCRIPTION: KUHLMAN #E-2
LOCATION: 1300' FNL & 700' F L, Section 33, T7S, R39W
COUNTY: Sherman STATE: Kansas WATER SOURCE:

ELEV:

4/14/91: (AJB) @ 7:00 A.M. @ 1006' and Drilling 6 1/4" hole. Previous 24 hours - Excell Drilling Company moved onto location; Rig up; Spud @ 10:45 A.M. 4/13/91; Drill 9 7/8" hole to Surface T.D. of 390' @ 1:30 P.M. 4/13/91; with mud wt. 9.8, viscosity 34; Circulate; Deviation survey @ 390' showd 1/2°; Trip out; Ran 12 jts. 7", 20# used surface casing measuring 379' set @ 385' KB; Cemented with 150 sacks neat with 3% CaCL; Plug down @ 3:45 P.M. 4/13/91; Wait on cement; Drilling 6 1/4" hole; Mix up; Drilling; with mud wt 8.8, viscosity 38, using 70 KCL, 35 starch, 2 mon pack, 2 P-10L, 4 Multiseal, 1 Celofain; Resume drilling.

4/15/91: (AJB) @ 7:00 A.M. Rig down moved to yard. Previous 24 hours - Drilling 6 1/4" hole to a T.D. of 1197' @ 9:30 A.M. 4/14/91; Circulate; Short trip; Circulate; Trip out to log; Logging; Run 4 1/2" production casing; 10.5#, j55 production casing to 1188' KB; Cemented with 85 sacks type A with 4% FLA; Plugged down @ 5:00 P.M. 4/14/91; Released rig @ 5:30 P.M. 4/14/91; Rig down.

RECEIVED
STATE CORPORATION COMMISSION

SEP 4 1991

CONSERVATION DIVISION
Wichita, Kansas

9/3/91