

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

API NO. 15- 189-208010001 ORIGINAL

County Stevens
- SW - NE - SW Sec. 17 Twp. 33S Rge. 35 X W

Operator: License # 5208

1650 Feet from S/N (circle one) Line of Section

Name: Mobil Oil Corporation

1650 Feet from E/W (circle one) Line of Section

Address P.O. Box 2173

Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)

2319 North Kansas Avenue

Lease Name Sandy #1 Unit Well # 2

City/State/Zip Liberal, KS 67905-2173

Field Name Hugoton

Purchaser: Spot Market

Producing Formation Chase

Operator Contact Person: Sharon Cook

Elevation: Ground 2986 KB 2993

Phone (316) 626-1142

Total Depth 6720 PBSD 2950

Contractor: Name: Best Well Service

Amount of Surface Pipe Set and Cemented at 1747 Feet

License: _____

Multiple Stage Cementing Collar Used? Yes X No

Wellsite Geologist: L. J. Reimer

If yes, show depth set NA Feet

Designate Type of Completion

If Alternate II completion, cement circulated from NA

 New Well Re-Entry X Workover

feet depth to NA w/ NA sx cmt.

 Oil SWD SIOW Temp. Abd.

Drilling Fluid Management Plan alt I
(Data must be collected from the Reserve Pit) 6-12-96
0 w/td Lu

X Gas ENHR SIGW

 Dry Other (Core, WSW, Expl., Cathodic, etc)

Chloride content NA ppm Fluid Volume NA bbls

If Workover:

Operator: Mobil Oil Corporation

Dewatering method used 4-24-96

Well Name: Sandy #1 Unit Well #2

Comp. Date 5-6-85 Old Total Depth 6720

Location of fluid disposal if hauled offsite: _____

 Deepening X Re-perf. Conv. to Inj/SWD
X Plug Back 2950 PBSD

Operator Name NA

 Commingled Docket No. _____

Lease Name _____ License No: _____

 Dual Completion Docket No. _____

 Other (SWD or Inj?) Docket No. _____

Quarter Sec. Twp. S Rng. E/W

1-27-96 Completion still in progress

County _____ Docket No. _____

Spud Date Date Reached TD Completion Date

Commenced Recompletion

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 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.

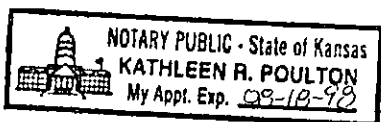
Signature Sharon A. Cook Sharon A. Cook
Title Regulatory Asst. Date 4-23-96

Subscribed and sworn to before me this 23rd day of April,
19 96.

Notary Public Kathleen R. Poulton

Date Commission Expires August 18, 1998
6-105.kcc

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



Operator Name Mobil Oil Corporation Lease Name Sandy #1 Unit Well # 2

Sec. 17 Twp. 33S Rge. 35 East County Stevens
 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 (Attach Additional Sheets.)	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datums	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No	NO CHANGE		
Electric Log Run (Submit Copy.)	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E.Logs Run:	NO CHANGE			

CASING RECORD <input 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
NO CHANGE							

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 checked="" type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	2950	Class C	2 sx	

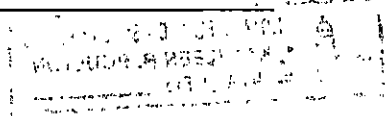
Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated		Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)		Depth
	1 SPF	2700-2720		Acid: 1,000 gals 7.5% HCL 1,000 gals 15% HCL	
	2750-2765		Fract: 680 bbls 20# Crosslink gel		
			125,740 lbs 12/20 Brady Sand		

TUBING RECORD Removed tubing and packer	Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj. Completion still in progress	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: METHOD OF COMPLETION Production Interval

Vented Sold Used on Lease Open Hole Perf. Dually Comp. Conmingled 2700

(If vented, submit ACO-18.) Other (Specify) 2765



STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION

WELL COMPLETION OR RECOMPLETION FORM
ACO-1 WELL HISTORY

DESCRIPTION OF WELL AND LEASE

Operator: License # 5208
Name Mobil Oil Corporation
Address P. O. Box 5444
City/State/Zip Denver, CO 80217

Purchaser Northern Natural Gas Company

Operator Contact Person J. E. Dawson
Phone (303) 298-2696

Contractor: License # 9137
Name Unit Drilling & Exploration Co.

Wellsite Geologist Jens Munthe
Phone (303) 298-2294

Designate Type of Completion

- New Well Re-Entry Workover
- 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

WELL HISTORY

Drilling Method:

- Mud Rotary Air Rotary Cable

2-4-85 2-18-85 5-6-85
Spud Date Date Reached TD Completion Date
6720' 3140'
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 1747 feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set
If alternate 2 completion, cement circulated from feet depth to w/SX cmf

API NO. 15-189-20801

County Stevens

SW NE SW Sec. 17 Twp. 33S Rge. 35 East West

1650 Ft North from Southeast Corner of Section
3630 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

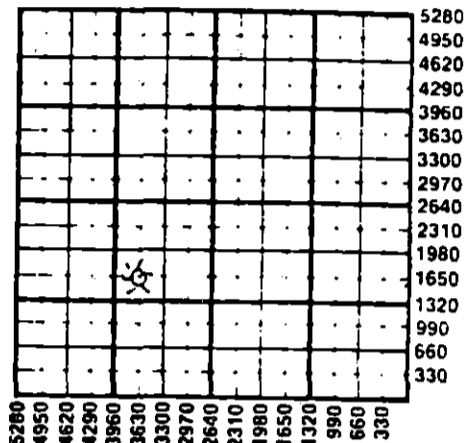
Lease Name Sandy #1 Unit Well # 2

Field Name Panoma

Producing Formation Council Grove

Elevation: Ground 2986' KB 3002'

Section Plat



WATER SUPPLY INFORMATION

Disposition of Produced Water: Disposal Repressuring
Docket # CD-3805 CC-19,820

Questions on this portion of the ACO-1 call
Water Resources Board (913) 296-3717

Source of Water: T84-798
Division of Water Resources Permit #

Groundwater 1650 Ft North from Southeast Corner
(Well) 3630 Ft West from Southeast Corner of
Sec 17 Twp 33 Rge 35 East West

Surface Water Ft North from Southeast Corner
(Stream, pond etc) Ft West from Southeast Corner
Sec Twp Rge East West

Other (explain) (purchased from city, R.W.D. #)

INSTRUCTIONS: This form shall be completed in duplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 90 days after completion or recompletion of any well. Rule 82-3-130 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 drillers time log shall be attached with this form. 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 compiled with and the statements herein are complete and correct to the best of my knowledge.

Signature J. E. Dawson

Title Production Accounting Supervisor Date 4.25.86

Subscribed and sworn to before me this 29 day of April 1986

Notary Public Claudia C. Loustek

Date Commission Expires 2-9-88

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)

RECEIVED
KANSAS CORPORATION COMMISSION
APR 25 1986

ORIGINAL

SIDE TWO

Operator Name Mobil Oil Corporation Lease Name Sandy #1 Unit Well # 2

Sec. 17 Twp. 33S Rge. 35 East West County Stevens

WELL LOG

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
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No

Formation Description
 Log Sample

Acid/Frac Program

Halliburton Frac'd down tbg as follows:

- 4000 gals apollo 30 @ pad
- 3000 gals apollo 30 w/1 ppg 16/30
- 3000 gals apollo 30 w/2 ppg 16/30
- 3000 gals apollo 30 w/3 ppg 16/30
- 3000 gals apollo 30 w/4 ppg 16/30
- 3000 gals apollo 30 w/5 ppg 16/30

Name	Top	Bottom
Winfield	2743	
Council Grove	2973	
Admire	3238	
Wabaunsee	3368	
Shawnee	3775	
Lansing	4271	
Kansas City	4635	
Marmaton	5033	
Cherokee	5263	
Morrow	5729	
Chester	6045	
Ste. Genevieve	6314	
St. Louis	6445	

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
Surface	12-1/4"	9-5/8"	36#	1747'	Class H	500	12% gel, 3% CaCl ₂
Production	8-5/8"	5-1/2"	15.5#	6712'	Class H	100	CaCl ₂ (3%)
					Class H	500	50/50 poz
					Class H	85	4% gel, 12% gel
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			(Amount and Kind of Material Used)		Depth	
2	2985-90 3050-56			(see acid/frac record detailed above)			
	3007-10						
	3012-16						
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Size 2-7/8"		Set At *3048'		Packer at *3061'			
Date of First Production		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	Gas	Water	Gas-Oil Ratio	Gravity	
		Bbls	MCF	Bbls	CFPB		

METHOD OF COMPLETION

Production Interval

Disposition of gas: Vented Sold Used on Lease
 Open Hole Perforation Other (Specify) 2985-3056 O.A.
 Dually Completed Commingled

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION

WELL COMPLETION OR RECOMPLETION FORM
ACO-1 WELL HISTORY

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Address P.O. Box 5444
City/State/Zip Denver, CO 80217-5444

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Operator Contact Person J L Douglass
Phone (303) 298-2047

Contractor: License # 9137
Name Unit Drilling & Exploration Co.

Wellsite Geologist Jens Munthe
Phone (303) 298-2294

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

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

WELL HISTORY

Drilling Method:
 Mud Rotary Air Rotary Cable
2-4-85 2-18-85 4-30-85
Spud Date Date Reached TD Completion Date
6720' 3140'
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 1747 feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set feet
If alternate 2 completion, cement circulated from feet depth to w/SX cmt

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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 J. E. Dawson
Title Producing Accounting Supervisor

Subscribed and sworn to before me this 22nd day of May 1988
Notary Public
Date Commission Expires

API NO. 15-189-20,801
County Stevens
SW NE SW Sec. 17 Twp. 33s Rge. 35 East West

1650 Ft North from Southeast Corner of Section
3630 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

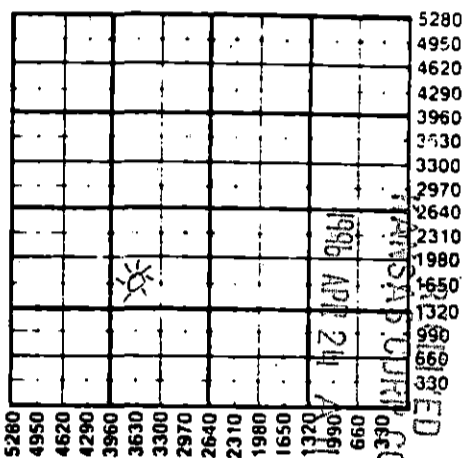
Lease Name Sandy #1 Unit Well # 2

Field Name Panoma

Producing Formation Council Grove

Elevation: Ground 2986' KB 3002'

Section Plat



WATER SUPPLY INFORMATION
Disposition of Produced Water: Disposal Repressuring
Docket # CD-3805 CC-19,820

Questions on this portion of the ACO-1 call:
Water Resources Board (913) 296-3717

Source of Water:
Division of Water Resources Permit # T84798'

Groundwater 1650 Ft North from Southeast Corner (Well) 3630 Ft West from Southeast Corner of Sec 17 Twp 33 Rge 35 East West

Surface Water Ft North from Southeast Corner (Stream, pond etc) Ft West from Southeast Corner Sec Twp Rge East West

Other (explain) (purchased from city, R.W.D. #)

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)

Operator Name Mobil Oil Corporation Lease Name Sandy #1 UT Well # 2

Sec. 17 Twp. 33s Rge. 35 East West County STEVENS

WELL LOG

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.

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Formation Description
 Log Sample

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Marmaton	5033	
Cherokee	5263	
Morrow	5729	
Chester	6045	
Ste. Genevieve	6314	
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CASING RECORD New Used
 Report all strings set-conductor, surface, intermediate, production, etc.

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Surface	12 1/4"	9 5/8"	36#	1747'	Class h	500	12% gel, 3% CaCl2
					Class h	100	CaCl2 (3%)
Production	8 5/8"	5 1/2"	15.5#	6712"	Class h	500	50/50 PoZ, 4% gel, 12% gel

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	3050'-3056'	See acid/frac Record detailed above	
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TUBING RECORD Size 2 7/8" Set At 5966' Packer at 5935'
 Liner Run Yes No

Date of First Production _____ Producing Method Flowing Pumping Gas Lift Other (explain) _____

Estimated Production Per 24 Hours	Oil	Gas	Water	Gas-Oil Ratio	Gravity
	3bbls	MCF	Bbls	CFPB	

METHOD OF COMPLETION Production Interval

Disposition of gas: Vented Open Hole Perforation Sold Other (Specify) _____ 3050'-3056'
 Used on Lease Dually Completed Commingled