KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
September 1999
Form Must Be Typed

WELL COMPLETION FORM

WELL HISTORY - DESCRIPTION OF WELL & LEASE

ORIGINAL

Operator: License # 5208
Name: Exxon Mobil Oil Corporation *
Address: P. O. Box 4358
City/State/Zip: Houston, TX 77210-4358
Purchaser:
Operator Contact Person: Beverly Roppolo
Phone: (281) 654-1943
Contractor: Name: Key Energy
License: N. A. 33223
Wellsite Geologist: N. A.

RECEIVED
SEP 10 2003
KCC WICHITA

Designate Type of Completion: REFRAC

___ 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: Mobil Oil Corporation
Well Name: KANSAS UNIVERSITY , WELL #1
Original Comp. Date: 1-29-47 Original Total Depth: 2797'

___ Deepening ___ Re-perf. ___ Conv. to Enhr./SWD
___ Plug Back ___ Plug Back Total Depth
___ Commingled Docket No.
___ Dual Completion Docket No.
___ Other (SWD or Enhr.?) Docket No.

10-20-99	~~5-16-46~~	10-28-99
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 189-00353 - 00-01
County: Stevens
~~NE NE NW~~ NE NE SW ~~NW SE NW~~ Sec. 29 Twp. 33 S. R. 35 ☐ East ☑ West
2540' FSL feet from (S) / N (circle one) Line of Section
2540' FWL feet from E / (W) (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW (SW)
Lease Name: KANSAS UNIVERSITY Well #: 1
Field Name: Hugoton
Producing Formation: Chase
Elevation: Ground: 3001 Kelly Bushing: 3007
Total Depth: 2797 Plug Back Total Depth: 2797
Amount of Surface Pipe Set and Cemented at 686' Feet
Multiple Stage Cementing Collar Used? ☐ Yes ☑ No
If yes, show depth set N. A. Feet
If Alternate II completion, cement circulated from N. A.
feet depth to N. A. w/ N. A. sx cmt.
ALT I WHM 9-28-06

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)
Chloride content N. A. ppm Fluid volume N. A. bbls
Dewatering method used
Location of fluid disposal if hauled offsite:
Operator Name:
Lease Name: License No.:
Quarter Sec. Twp. S. R. ☐ East ☐ West
County: Docket No.:

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 of 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: Beverly Roppolo
Title: Contract Completions Admin Date: 9/5/03
Subscribed and sworn to before me this 5th day of September, 2003.
Notary Public: Kim Lynch
Date Commission Expires: Aug. 26, 2006

KIM LYNCH
NOTARY PUBLIC, STATE OF TEXAS
MY COMMISSION EXPIRES
AUG. 26, 2006

KCC Office Use ONLY

NO Letter of Confidentiality Attached
If Denied, Yes ☐ Date:
NO Wireline Log Received
NO Geologist Report Received
NO UIC Distribution

Side Two

Operator Name: Exxon Mobil Oil Corporation * Lease Name: KANSAS UNIVERSITY Well #: 1

Sec. 29 Twp. 33 S. R. 35 ☐ East ☑ West County: Stevens

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems 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 test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

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:

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

Name Top Datum

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		10 3/4	32.75#	686		200	
PRODUCTION		7.0	20#	2649		900	
PROD LINER		5 1/2	15.5#	(2644' -	2797')		

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose: ____ Perforate ____ Protect Casing ____ Plug Back TD ____ Plug Off Zone	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives

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
	2660' - 2797' liner slots	FRAC'D WELL WITH	
		80Q N2 FOAM @ 80BPM	

TUBING RECORD Size	Set At	Packer At	Liner Run
2 3/8-4.7	@2777		☑ Yes ☐ No

Date of First, Resumed Production, SWD or Enhr.	Producing Method ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ 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
(If vented, Sumit ACO-18.)

☐ Open Hole ☑ Perf. ☐ Dually Comp. ☐ Commingled _____

☐ Other *(Specify)* _____

ORIGINAL

Schlumberger
Dowell

Stimulation Service Report

Customer	Job Number
MOBIL DRILLING V390500757A	20129770

Well	Location (legal)	Dowell Location	Job Start
KANSAS UNIVERSITY 1-[illegible]	29, 33S, 35W	Ulysses, KS	10/25/1999

Field	Formation Name/Type	Deviation	BitSize:	Well MD	Well TVD
HUGOTON	Chase	0 °	0 in	2,797 ft	2,797 ft

County	State/Province	BHP	BHST	BHCT	Pore Pres Gradient
Stevens	KS	0 psi	95 °F	85 °F	0 psi/ft

Rig Name	Drilled For	Service Via
Key Energy	Gas	Land

Offshore Zone	Well Class	Well Type
	New	Rigless

Primary Treating Fluid	Polymer Loading	Fluid Density
80Q Foam	20 lb/1000gal	lb/gal

Service Line	Job Type
Fracturing	Frac,N2Foam/Energized

Max. Allowed Tubing Pressure	Max. Allowed Ann. Pressure	WellHead Connection
2300 psi	0 psi	5 1/2 X 4 Swage

Service Instructions

Safely deliver & perform Foam Frac with materials & equipment listed on the Service Receipt. Per clients instructions.
27 miles on equipment, 42 on N2 transports.

Casing

Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
2797	5.5	15.5		
2649	7	20		

Tubing

Depth,	Size, in	Weight, lb/ft	Grade	Thread
0	0	0		
0	0	0		

Perforated Intervals

Top, ft	Bottom, ft	spf	No. of Shots	Total Interval
2660	2797	0	0	137 ft
0	0	0	0	Diameter
0	0	0	0	0 in

Treat Down	Displacement	Packer Type	Packer Depth
Casing	0 bbl	None	0 ft

Job Scheduled For:	Arrived on Location:	Leave Location:	Tubing Vol.	Casing Vol.	Annular Vol.	Open Hole Vol
10/25/1999 6:00	10/25/1999 12:00	10/25/1999 15:00	0 bbl	0 bbl	0 bbl	0 bbl

Time 24 hr clock	Liquid Add 1 gal/min	Total Flowrate bpm	Total Volume bbl	Treating Psi psi					Message
13:07	0	0	0	0	0	0	0	0	START ACQUISITION
13:07	-6.25	0.	0.	-3686	0	0	0	0	
13:08	-6.25	0.	0.	-3686	0	0	0	0	Pressure Test Lines
13:08	0.	0.	0.	2491	0	0	0	0	
13:09	0.008	0.	0.	2225	0	0	0	0	
13:10	0.008	0.	0.	2326	0	0	0	0	
13:11	0.008	0.	0.	425.8	0	0	0	0	
13:11	0.008	0.	0.	425.8	0	0	0	0	PAUSE ACQUISITION
13:16	0.008	0.	0.	425.8	0	0	0	0	[Total N2 Rate]=F[Total N2 Rate 1]
13:16	0.008	0.	0.	425.8	0	0	0	0	Start N2 Flowmeter
13:20	0.008	0.	0.	425.8	0	0	0	0	RESTART AFTER PAUSE
13:20	0.008	0.	0.	645.6	0	0	0	0	
13:21	1.57	8.24	3.39	105.3	0	0	0	0	
13:22	1.59	8.64	12.	215.2	0	0	0	0	
13:23	1.63	8.51	20.52	489.9	0	0	0	0	
13:24	1.64	8.37	28.94	718.9	0	0	0	0	
13:25	1.62	8.37	37.3	874.5	0	0	0	0	
13:26	1.64	8.24	45.62	943.2	0	0	0	0	
13:27	3.45	16.07	56.85	1044	0	0	0	0	
13:28	3.17	16.88	73.56	1209	0	0	0	0	
13:29	3.22	16.88	90.45	1236	0	0	0	0	
13:30	3.23	16.88	108.4	1282	0	0	0	0	
13:31	3.23	16.88	126.3	1277	0	0	0	0	
13:32	3.24	16.88	144.2	1282	0	0	0	0	
13:33	3.24	16.88	161.1	1282	0	0	0	0	
13:34	3.25	16.74	177.9	1300	0	0	0	0	
13:35	3.27	16.74	194.8	1319	0	0	0	0	
13:36	3.24	16.74	211.6	1273	0	0	0	0	

ORIGINAL

Well	Field	Service Date	Customer	Job Number
KANSAS UNIVERSITY #1	HUGOTON		MOBIL DRILLING V39050075	20129770

Time (24 hr clock)	Liquid Add 1 gal/mb	Total Flowrate bpm	Total Volume bbl	Treating Psi psi					Message
13:37	3.26	16.74	228.5	1323	0	0	0	0	
13:38	3.22	16.74	245.3	1314	0	0	0	0	
13:39	3.25	16.88	262.1	1305	0	0	0	0	
13:40	3.27	16.74	278.9	1300	0	0	0	0	
13:41	3.27	16.74	295.8	1268	0	0	0	0	
13:42	3.3	16.74	312.6	1287	0	0	0	0	
13:43	3.23	16.88	329.4	1323	0	0	0	0	
13:44	3.21	16.74	346.2	1277	0	0	0	0	
13:45	3.27	16.74	363.	1332	0	0	0	0	
13:46	3.22	16.74	379.8	1314	0	0	0	0	
13:47	3.27	16.88	396.7	1296	0	0	0	0	
13:48	3.28	16.88	413.6	1268	0	0	0	0	
13:49	3.24	16.88	430.5	1273	0	0	0	0	
13:50	3.21	16.74	447.4	1314	0	0	0	0	
13:51	3.26	16.88	464.3	1323	0	0	0	0	
13:52	3.22	16.88	481.2	1277	0	0	0	0	
13:53	3.25	16.88	498.1	1314	0	0	0	0	
13:54	3.27	16.88	515.	1314	0	0	0	0	
13:55	3.27	16.88	531.9	1273	0	0	0	0	
13:56	3.24	16.74	548.8	1328	0	0	0	0	
13:57	3.22	16.88	565.7	1305	0	0	0	0	
13:58	0.588	0.	581.4	1126	0	0	0	0	
13:59	0.008	0.	581.4	989.	0	0	0	0	
14:00	0.008	0.	581.4	961.5	0	0	0	0	
14:01	8.17	0.	581.4	947.8	0	0	0	0	
14:02	-6.24	0.	581.4	938.6	0	0	0	0	
14:03	-6.24	0.	581.4	924.9	0	0	0	0	
14:04	-6.23	0.	581.4	920.3	0	0	0	0	
14:05	-6.24	0.	581.4	911.2	0	0	0	0	
14:06	-6.23	0.	581.5	902.	0	0	0	0	
14:07	-6.23	0.	581.5	892.9	0	0	0	0	
14:08	-6.24	0.	581.5	883.7	0	0	0	0	
14:09	-6.23	0.	581.5	879.1	0	0	0	0	
14:10	-6.23	0.	581.5	870.	0	0	0	0	
14:11	-6.23	0.	581.5	860.8	0	0	0	0	
14:12	-6.24	0.	581.5	847.1	0	0	0	0	

Post Job Summary

Average Injection Rates, bpm

Fluid	N2	CO2	Maximum Rate
16	27000	0	16

Volume of Fluid Injected, bbl

Clean Fluid	Acid	Oil	CO2	N2 (scf)
580	0	0	0	0

Treating Pressure Summary, psi

Breakdown	Maximum	Final	Average	ISIP	15 Min. ISIP
0	1345	1321	1300	1043	856

Quantity of & placed, lb

Total Injected	Total Ordered/Designed
0	0

N2 Percent	CO2 Percent	Designed Fluid Volume	Displacement	Slurry Volume	Pad Volume	Percent Pad
0 %	0 %	100000 gal	0 bbl	580 bbl	0 gal	0 %

Customer or Authorized Representative	Dowell Supervisor	Number of Stages	Fracture Gradient	
John Rice	Dave Brawley	0	0 psi/ft	☑ Job Completed ☐ Screen Out