

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.  
Wellsite Geologist: N. A.  
Designate Type of Completion: REFRAC  
 New Well  Re-Entry  Workover  
 Oil  SWD  SLOW  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSW, Expl., Cathodic, etc)

RECEIVED  
JUL 23 2003

KCC WICHITA

If Workover/Re-entry: Old Well Info as follows:  
Operator: Mobil Oil Corporation  
Well Name: BROWN #20 UNIT, WELL #22  
Original Comp. Date: 3-24-95 Original Total Depth: 2830'  
 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. \_\_\_\_\_

1-24-03	2-23-95	1-31-03
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 055-21396-00-01  
County: FINNEY  
NE SE SW Sec. 4 Twp. 25 S. R. 34  East  West  
1250' FSL feet from (S) / N (circle one) Line of Section  
2630' 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: BROWN #20 UNIT Well #: 22  
Field Name: Hugoton  
Producing Formation: Chase  
Elevation: Ground: 2961 Kelly Bushing: 2972  
Total Depth: 2830 Plug Back Total Depth: 2780  
Amount of Surface Pipe Set and Cemented at 479 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.

Drilling Fluid Management Plan OWWO KCR 1-29-08  
(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: 7/18/03  
Subscribed and sworn to before me this 18 day of July,  
18 2003  
Notary Public: Tiffany A. Stebbins  
Date Commission Expires: 9-27-05



TIFFANY A. STEBBINS  
NOTARY PUBLIC, STATE OF TEXAS  
MY COMMISSION EXPIRES  
SEPT. 27, 2005

**KCC Office Use ONLY**  
 Letter of Confidentiality Attached  
If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 TIC Distribution

Operator Name: Exxon Mobil Oil Corporation \* Lease Name: BROWN #20 UNIT Well #: 22  
 Sec. 4 Twp. 25 S. R. 34  East  West County: FINNEY

**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 <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  Electric Log Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Submit Copy)</i>  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th style="width:15%;">Top</th> <th style="width:15%;">Datum</th> </tr> </thead> <tbody> <tr> <td>GLORIETTA</td> <td>1404</td> <td>1541</td> </tr> <tr> <td>STONE CORRAL</td> <td>1822</td> <td>1894</td> </tr> <tr> <td>CHASE</td> <td>2443</td> <td>2742</td> </tr> <tr> <td>COUNCIL GROVE</td> <td>2742</td> <td>---</td> </tr> </tbody> </table>	Name	Top	Datum	GLORIETTA	1404	1541	STONE CORRAL	1822	1894	CHASE	2443	2742	COUNCIL GROVE	2742	---
Name	Top	Datum														
GLORIETTA	1404	1541														
STONE CORRAL	1822	1894														
CHASE	2443	2742														
COUNCIL GROVE	2742	---														

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	12.250	8.625	24#	479'	CLASS C	325	50:50 c/poz
PRODUCTION	7.875	5.500	14#	2825'	CLASS C	425	

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
2 SPF	2474' - 2484'	FRAC'D WELL WITH 762,582 scf OF	
1 SPF	2527' - 2542'	80Q N2 FOAM @ 80BPM	
1 SPF	2590' - 2620'		
1 SPF	2648' - 2658'		

TUBING RECORD		Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr. <b>3-17-95</b>			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  Vented  Sold  Used on Lease *(If vented, Sumit ACO-18.)*

METHOD OF COMPLETION  Open Hole  Perf.  Dually Comp.  Commingled  Other (Specify) \_\_\_\_\_

Production Interval \_\_\_\_\_



# Stimulation Service Report

RECEIVED  
JUL 23 2003  
ORIGINAL  
KCC WICHITA

Customer EXXON MOBIL CORPORATION	Job Number 2205541280
-------------------------------------	--------------------------

Well <b>BROWN 20-22</b>		Location (legal) <b>SEC. 4-25S-34W</b>		Schlumberger Location <b>Perryton, TX</b>		Job Start <b>2003-Jan-28</b>		
Field		Formation Name/Type <b>CHASE</b>		Deviation		BitSize: <b>in</b>	Well MD <b>2,825 ft</b>	Well TVD <b>2,825 ft</b>
County <b>FINNEY</b>		State/Province <b>KANSAS</b>		BHP <b>psi</b>	BHST <b>110 °F</b>	BHCT <b>110 °F</b>	Pore Pres Gradient <b>psi/ft</b>	
Well Maste <b>0630043226</b>		API / UV		Casing/Liner				
Rig Name	Drilled For <b>Oil &amp; Gas</b>	Service Via <b>Land</b>						
Offshore Zone	Well Class <b>New</b>	Well Type <b>Exploration</b>	Depth, ft <b>2825</b>	Size, in <b>5.5</b>	Weight, lb/ft <b>14</b>	Grade <b>K55</b>	Thread <b>HYD</b>	
Primary Treating Fluid <b>WF130</b>		Polymer Loading <b>6.8 lb/1000gal</b>	Fluid Density <b>lb/gal</b>	Tubing/Drill Pipe				
Service Line <b>Fracturing</b>	Job Type <b>Frac, N2Foam/Energized</b>							
Max. Allowed Tubing Pressure <b>3000 psi</b>	Max. Allowed Ann. Pressure <b>psi</b>	WellHead Connection <b>Frac Cross</b>	Perforations/Open Hole					
Service Instructions <b>Frac CHASE w/ 100,000 gals 80Q WF130 @ 80 bpm</b>								Top, ft <b>2474</b>
			2527	2542	1	15	Diameter <b>in</b>	
			2590	2658	1	68	Packer Depth <b>ft</b>	
			Treat Down <b>Casing</b>	Displacement <b>60.4 bbl</b>	Packer Type	Packer Depth <b>ft</b>		
Job Scheduled For:	Arrived on Location: <b>2003-Jan-28 7:00</b>	Leave Location: <b>2003-Jan-28 11:15</b>	Tubing Vol. <b>bbl</b>	CasingVol. <b>68.9 bbl</b>	AnnularVol. <b>bbl</b>	OpenHoleVol <b>bbl</b>		

Date	Time 24 hr clock	psi	bbl/min	scf/min	bbl	Mscf	0	0	0	Message
		psi	bbl/min	scf/min	bbl	Mscf	0	0	0	
2003-Jan-28	9:40									Started PAD
2003-Jan-28	9:40	523	0.0	0	0.0	0.0	0	0	0	
2003-Jan-28	9:41	39	0.0	0	0.0	0.0	0	0	0	
2003-Jan-28	9:41	131	8.0	7234	2.9	0.6	0	0	0	
2003-Jan-28	9:41	416	7.9	12857	5.3	4.3	0	0	0	
2003-Jan-28	9:42	448	8.0	12777	8.0	8.6	0	0	0	
2003-Jan-28	9:42	544	8.0	12907	10.6	12.9	0	0	0	
2003-Jan-28	9:42	626	8.0	12917	13.3	17.1	0	0	0	
2003-Jan-28	9:42									Stage at Perfs: PAD
2003-Jan-28	9:42	656	8.0	12787	14.2	18.6	0	0	0	
2003-Jan-28	9:43	743	2.5	18269	15.5	21.7	0	0	0	
2003-Jan-28	9:43	1097	14.4	24733	19.1	29.5	0	0	0	
2003-Jan-28	9:43	1679	15.8	25983	24.2	38.0	0	0	0	
2003-Jan-28	9:44	1925	15.8	25673	29.5	46.6	0	0	0	
2003-Jan-28	9:44	1888	15.8	25123	34.8	55.0	0	0	0	
2003-Jan-28	9:44	1865	15.8	25113	40.1	63.4	0	0	0	
2003-Jan-28	9:45	1456	0.0	10	42.2	67.5	0	0	0	
2003-Jan-28	10:02	668	0.0	0	42.2	67.5	0	0	0	
2003-Jan-28	10:02	687	3.8	0	42.4	67.5	0	0	0	
2003-Jan-28	10:02	765	7.5	8905	44.4	69.0	0	0	0	
2003-Jan-28	10:03	940	11.6	16358	47.0	73.0	0	0	0	
2003-Jan-28	10:03	1343	16.0	23622	52.0	80.3	0	0	0	
2003-Jan-28	10:03	1621	15.9	25573	57.3	88.7	0	0	0	
2003-Jan-28	10:04	1753	15.9	25643	62.6	97.2	0	0	0	
2003-Jan-28	10:04	1763	15.9	25683	67.9	105.8	0	0	0	
2003-Jan-28	10:04	1731	15.9	25633	73.2	114.3	0	0	0	
2003-Jan-28	10:05	1733	16.0	25633	78.5	122.9	0	0	0	
2003-Jan-28	10:05	1685	15.9	25533	83.8	131.4	0	0	0	
2003-Jan-28	10:05	1689	16.0	25563	89.1	140.0	0	0	0	

Well		Field					Service Date		Customer			Job Number
BROWN #20-22							2003-Jan-28		EXXON MOBIL CORPORATION			2205541280
Date	Time	psi	bbl/min	scf/min	bbl	Mscf	0	0	0	Message		
	24 hr clock	psi	bbl/min	scf/min	bbl	Mscf	0	0	0			
2003-Jan-28	10:06	1688	16.0	25563	94.4	148.5	0	0	0			
2003-Jan-28	10:06	1665	16.0	25823	99.8	157.0	0	0	0			
2003-Jan-28	10:06	1656	16.0	25833	105.1	165.6	0	0	0			
2003-Jan-28	10:07	1630	16.0	25843	110.4	174.1	0	0	0			
2003-Jan-28	10:07	1614	16.1	25853	115.8	182.6	0	0	0			
2003-Jan-28	10:07	1588	16.1	25593	121.1	191.2	0	0	0			
2003-Jan-28	10:08	1601	16.1	25603	126.5	199.7	0	0	0			
2003-Jan-28	10:08	1560	16.1	25603	131.9	208.3	0	0	0			
2003-Jan-28	10:08	1548	16.1	25613	137.2	216.8	0	0	0			
2003-Jan-28	10:09	1564	16.1	25643	142.6	225.4	0	0	0			
2003-Jan-28	10:09	1542	16.2	25623	148.0	233.9	0	0	0			
2003-Jan-28	10:09	1538	16.2	25893	153.4	242.5	0	0	0			
2003-Jan-28	10:10	1548	16.2	25873	158.8	251.0	0	0	0			
2003-Jan-28	10:10	1539	16.1	25803	164.1	259.6	0	0	0			
2003-Jan-28	10:10	1524	16.1	25773	169.5	268.1	0	0	0			
2003-Jan-28	10:11	1529	16.2	25523	174.9	276.6	0	0	0			
2003-Jan-28	10:11	1532	16.3	25523	180.3	285.1	0	0	0			
2003-Jan-28	10:11	1529	16.2	25553	185.7	293.7	0	0	0			
2003-Jan-28	10:12	1525	16.3	25493	191.1	302.2	0	0	0			
2003-Jan-28	10:12	1530	16.3	25553	196.5	310.7	0	0	0			
2003-Jan-28	10:12	1516	16.3	25563	201.9	319.2	0	0	0			
2003-Jan-28	10:13	1513	16.3	25563	207.3	327.8	0	0	0			
2003-Jan-28	10:13	1488	16.3	25323	212.7	336.3	0	0	0			
2003-Jan-28	10:13	1496	16.2	25573	218.1	344.9	0	0	0			
2003-Jan-28	10:14	1504	16.3	25573	223.5	353.4	0	0	0			
2003-Jan-28	10:14	1486	16.3	25553	229.0	361.9	0	0	0			
2003-Jan-28	10:14	1491	16.3	25553	234.4	370.5	0	0	0			
2003-Jan-28	10:15	1475	16.3	25343	239.8	379.0	0	0	0			
2003-Jan-28	10:15	1493	16.3	25643	245.2	387.5	0	0	0			
2003-Jan-28	10:15	1510	16.3	25593	250.6	396.1	0	0	0			
2003-Jan-28	10:16	1469	16.3	25823	256.0	404.6	0	0	0			
2003-Jan-28	10:16	1490	16.3	25563	261.5	413.2	0	0	0			
2003-Jan-28	10:16	1483	16.3	25573	266.9	421.7	0	0	0			
2003-Jan-28	10:17	1458	16.3	25593	272.3	430.2	0	0	0			
2003-Jan-28	10:17	1484	16.3	25593	277.8	438.8	0	0	0			
2003-Jan-28	10:17	1471	16.3	25583	283.2	447.3	0	0	0			
2003-Jan-28	10:18	1456	16.3	25553	288.6	455.8	0	0	0			
2003-Jan-28	10:18	1469	16.3	25573	294.1	464.4	0	0	0			
2003-Jan-28	10:18	1475	16.3	25573	299.5	472.9	0	0	0			
2003-Jan-28	10:19	1470	16.3	25583	305.0	481.5	0	0	0			
2003-Jan-28	10:19	1453	16.3	25583	310.4	490.0	0	0	0			
2003-Jan-28	10:19	1464	16.3	25583	315.9	498.5	0	0	0			
2003-Jan-28	10:20	1457	16.3	25583	321.3	507.1	0	0	0			
2003-Jan-28	10:20	1464	16.3	25583	326.7	515.6	0	0	0			
2003-Jan-28	10:20	1464	16.3	25583	332.2	524.2	0	0	0			
2003-Jan-28	10:21	1475	16.3	25583	337.6	532.7	0	0	0			
2003-Jan-28	10:21	1473	16.3	25563	343.1	541.2	0	0	0			
2003-Jan-28	10:21	1466	16.4	25573	348.6	549.8	0	0	0			
2003-Jan-28	10:22	1471	16.3	25573	354.0	558.3	0	0	0			
2003-Jan-28	10:22	1467	16.3	25833	359.5	566.8	0	0	0			
2003-Jan-28	10:22	1464	16.3	25573	365.0	575.4	0	0	0			
2003-Jan-28	10:23	1337	16.1	25573	370.3	583.9	0	0	0			
2003-Jan-28	10:23	1344	16.1	25793	375.7	592.4	0	0	0			
2003-Jan-28	10:23	1386	16.1	25813	381.1	600.9	0	0	0			

Well		Field		Service Date		Customer			Job Number	
BROWN #20-22				2003-Jan-28		EXXON MOBIL CORPORATION			2205541280	
Date	Time	psi	bbf/min	scf/min	bbf	Mscf	0	0	0	Message
	24 hr clock	psi	bbf/min	scf/min	bbf	Mscf	0	0	0	
2003-Jan-28	10:24	1217	16.1	25563	386.4	609.5	0	0	0	
2003-Jan-28	10:24	1219	16.1	25823	391.8	618.0	0	0	0	
2003-Jan-28	10:24	1088	16.2	25803	397.2	626.5	0	0	0	
2003-Jan-28	10:25	1285	16.2	25563	402.5	635.1	0	0	0	
2003-Jan-28	10:25	1358	16.2	25593	407.9	643.6	0	0	0	
2003-Jan-28	10:25	1362	16.2	25573	413.3	652.2	0	0	0	
2003-Jan-28	10:26	1301	16.1	25583	418.6	660.7	0	0	0	
2003-Jan-28	10:26	1375	16.1	25653	424.0	669.2	0	0	0	
2003-Jan-28	10:26	1324	16.1	25583	429.4	677.8	0	0	0	
2003-Jan-28	10:27	1342	16.1	25583	434.7	686.3	0	0	0	
2003-Jan-28	10:27	1353	16.2	25583	440.1	694.9	0	0	0	
2003-Jan-28	10:27	1258	16.2	25573	445.5	703.4	0	0	0	
2003-Jan-28	10:28	1342	16.2	25583	450.9	711.9	0	0	0	
2003-Jan-28	10:28	1328	16.2	25843	456.2	720.5	0	0	0	
2003-Jan-28	10:28	1332	16.2	25863	461.6	729.0	0	0	0	
2003-Jan-28	10:29	1374	16.1	25833	467.0	737.6	0	0	0	
2003-Jan-28	10:29	1344	16.1	25843	472.4	746.1	0	0	0	
2003-Jan-28	10:29									Started FLUSH Automatically
2003-Jan-28	10:29	1324	13.0	25633	476.4	752.5	0	0	0	
2003-Jan-28	10:29	1287	0.0	25583	476.8	754.7	0	0	0	
2003-Jan-28	10:30	1253	0.0	25603	476.8	763.2	0	0	0	
2003-Jan-28	10:30	1263	0.0	25613	476.8	771.8	0	0	0	
2003-Jan-28	10:30	1105	0.0	0	476.8	775.9	0	0	0	
Post Job Summary										
Average Injection Rates, bpm						Volume of Fluid Injected, bbl				
Fluid	N2	CO2	Maximum Rate			Clean Fluid	Acid	Oil	CO2	N2 (scf)
15	25600	0	16			478	0		0	762582
Treating Pressure Summary, psi						Quantity of & placed, lb				
Breakdown	Maximum	Final	Average	ISIP	15 Min. ISIP	Total Injected	Total Ordered/Designed			
1927	1927	1341	1532	1103		0				
N2 Percent	CO2 Percent	Designed Fluid Volume		Displacement	Slurry Volume	Pad Volume	Percent Pad			
80 %	0 %	21000 gal		60.4 bbl	0 bbl	100000 gal				
Customer or Authorized Representative			Schlumberger Supervisor			Number of Stages	Fracture Gradient	<input checked="" type="checkbox"/> Job Completed		
Lewis, Richard			Vela Jr, Eusebio			2	psi/ft	<input type="checkbox"/> Screen Out		