

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

Operator: License # 5208
Name: Mobil Oil Corporation
Address P.O. Box 2173
2319 North Kansas Avenue
City/State/Zip Liberal, KS 67905-2173
Purchaser: Spot Market
Operator Contact Person: Sharon Cook
Phone (316) 626-1142
Contractor: Name: Norseman Drilling Inc.
License: 3779
Wellsite Geologist: L. J. Reimer
Designate Type of Completion
 New Well Re-Entry Workover
 Oil SWD SLOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)
If Workover:
Operator: _____
Well Name: _____
Comp. Date _____ Old Total Depth _____
 Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PBTD
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____
11-5-97 11-8-97 12-5-97
Spud Date Date Reached TD Completion Date

API NO. 15- 189-222500000
County Stevens
- SW - NE - SE Sec. 29 Twp. 33 Rge. 35 X E
1500 Feet from S (circle one) Line of Section
1250 Feet from E (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
NE, SE NW or SW (circle one)
Lease Name Kansas University #1 Unit Well # 2
Field Name Hugoton
Producing Formation Chase
Elevation: Ground 2997 KB 3006
Total Depth 2935 PBTD 2888
Amount of Surface Pipe Set and Cemented at 754 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set NA Feet
If Alternate II completion, cement circulated from NA
feet depth to NA w/ NA sx cmt.
Drilling Fluid Management Plan Att. 1, 5-13-98 U.C.
(Data must be collected from the Reserve Pit)
Chloride content 9,000 ppm Fluid volume 180 bbls
Dewatering method used Evaporation
Location of fluid disposal if hauled offsite:
Operator Name Mobil Oil Corporation
Lease Name _____ License No. 5208
____ Quarter Sec. _____ Twp. _____ S Rng. _____ E/W
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 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 Assistant Date 2-19-98
Subscribed and sworn to before me this 19th day of February,
19 98.
Notary Public Lynn K. Hunt
Date Commission Expires February 20, 2001
8-15.kcc

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
Distribution
 KCC SWD/Rep NGPA
 KGS Other
Stamp: 2-24-98 (Specify)



Operator Name Mobil Oil Corporation Lease Name Kansas University #1 Unit Well # 2

Sec. 29 Twp. 33 Rge. 35 East West
 County Stevens

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 checked="" type="checkbox"/> No 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 (Submit Copy.) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No List All E.Logs Run: <p style="text-align: center;">NO LOGS RUN</p>	<input type="checkbox"/> Log Formation (Top), Depth and Datums <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> </table>	Name	Top	Datum
Name	Top	Datum		

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 Casing	12.250	8.625	24#	754	Class C Class C	240 150	50:50 C/poz 50:50 C/poz
Production Casing	7.875	5.500	14#	2922	Class C Class C	225 100	3% D79 2% B28

ADDITIONAL CEMENTING/SQUEEZE RECORD					
Purpose:	Depth		Type of Cement	#Sacks Used	Type and Percent Additives
	Top	Bottom			
<input type="checkbox"/> Perforate					
<input type="checkbox"/> Protect Casing					
<input type="checkbox"/> Plug Back TD					
<input type="checkbox"/> Plug Off Zone					

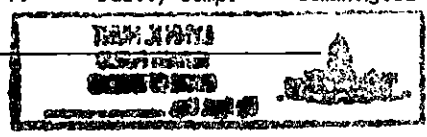
Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated		Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	
	Top	Bottom	Amount	Depth
2 SPF	2730	2745	Acid: 1,000 gals 7.5% HCL	
			Fract: 4,400 gals WF130 in 80q foam	
			33,660 lbs 16/30 sand	

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First, Resumed Production, SWD or Inj. 12-4-97 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		22			

Disposition of Gas: METHOD OF COMPLETION Production Interval
 Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled 2730
 (If vented, submit ACO-18.) Other (Specify) 2745



Well			Field			Service Date		Customer		Job Number	
KANSAS UNIVERSITY ##1-2			HUGOYON			11/3/97		MOBIL DRILLING		20028842	
Time	Density	Pressure U1	Pump	Rezero					Message		
24 hr clock	ppg	psi	bpm	bbl							
10:10	11.57	269.4	5.594	33.47	0	0	0				
10:11	11.63	246.8	5.601	36.85	0	0	0				
10:11	11.74	234.2	5.592	40.23	0	0	0				
10:12	11.57	214.5	5.594	43.61	0	0	0				
10:13	11.76	200.8	5.592	46.98	0	0	0				
10:13	11.78	181.9	5.592	50.36	0	0	0				
10:14	11.79	165.6	5.592	53.74	0	0	0				
10:14	11.84	150.8	5.601	57.12	0	0	0				
10:15	11.75	132.2	5.592	60.49	0	0	0				
10:16	11.77	122.1	5.584	63.86	0	0	0				
10:16	11.72	114.6	5.591	67.25	0	0	0				
10:17	11.73	110	5.589	70.62	0	0	0		ORIGINAL		
10:17	11.57	106.1	5.593	74	0	0	0				
10:18	11.85	117.6	5.591	77.37	0	0	0				
10:19	11.68	107.7	5.583	80.76	0	0	0				
10:19	11.74	108.7	5.598	84.13	0	0	0				
10:20	11.75	110.9	5.592	87.5	0	0	0				
10:20	11.74	102.1	5.591	90.88	0	0	0				
10:21	11.78	114.2	5.592	94.25	0	0	0				
10:22	11.74	112.8	5.592	97.63	0	0	0				
10:22	11.79	112.3	5.596	101	0	0	0				
10:23	11.75	111.1	5.591	104.4	0	0	0				
10:23	11.73	109.6	5.594	107.8	0	0	0				
10:24	11.73	111.3	5.591	111.1	0	0	0				
10:25	11.84	111.5	5.591	114.5	0	0	0				
10:25	11.77	111.2	5.592	117.9	0	0	0				
10:26	11.7	104.5	5.589	121.3	0	0	0				
10:26	11.88	111.4	5.59	124.6	0	0	0				
10:27	11.84	110.8	5.592	128	0	0	0				
10:28	11.75	102.6	5.591	131.4	0	0	0				
10:28	11.85	107.2	5.59	134.8	0	0	0				
10:29	11.78	104.3	5.592	138.1	0	0	0				
10:29	0	0	0	0	0	0	0		End Lead Slurry		
10:29	11.49	101.5	5.592	141.5	0	0	0				
10:30	0	0	0	0	0	0	0		[CumVol]=116.5 bbl		
10:30	0	0	0	0	0	0	0		Reset Volume		
10:30	0	0	0	0	0	0	0		Start Mixing Tail Slurry		
10:30	13.73	137.4	5.585	144.9	0	0	0				
10:31	14.99	206.2	5.592	148.3	0	0	0				
10:31	14.95	196.2	5.592	151.6	0	0	0				
10:32	15.15	201.6	5.582	155	0	0	0				
10:32	14.8	188.6	5.592	158.4	0	0	0				
10:33	14.81	145.2	5.593	161.8	0	0	0				
10:34	14.97	146.3	5.596	165.1	0	0	0				
10:34	0	0	0	0	0	0	0		Start Mixing Tail Slurry		
10:34	0	0	0	0	0	0	0		Reset Volume		
10:34	13.28	9.432	.2899	167.7	0	0	0		[CumVol]=24.63 bbl		
10:34	0	0	0	0	0	0	0		Drop Top Plug		
10:35	0	0	0	0	0	0	0		Start Displacement		
10:35	0	0	0	0	0	0	0		PAUSE ACQUISITION		
10:38	8.889	43.03	5.504	167.8	0	0	0		RESTART AFTER PAUSE		
10:39	8.827	40.1	5.596	171.2	0	0	0				
10:40	8.657	49.09	5.59	174.6	0	0	0				
10:40	8.546	39.11	5.593	177.9	0	0	0				

Well			Field			Service Date		Customer		Job Number	
KANSAS UNIVERSITY #1-2			HUGOYON			11/3/97		MOBIL DRILLING		20028842	
Time	Density	Prossuro U1	Pump	Rezero				Message			
24 Hr clock	ppg	psi	bpm	bbl							
10:41	8.53	39.89	5.583	181.3	0	0	0				
10:41	8.485	41.32	5.593	184.6	0	0	0				
10:42	8.467	49.33	5.595	188	0	0	0				
10:43	8.349	81.69	5.594	191.4	0	0	0				
10:43	8.257	97.68	5.592	194.7	0	0	0				
10:44	8.208	120.7	5.592	198.1	0	0	0				
10:44	8.22	146	5.591	201.5	0	0	0				
10:45	8.328	171.5	5.592	204.8	0	0	0				
10:46	8.331	197.6	5.601	208.3	0	0	0				
10:46	8.266	226	5.588	211.6	0	0	0				
10:47	8.214	265.1	5.588	215	0	0	0	ORIGINAL			
10:47	8.212	330.3	5.601	218.4	0	0	0				
10:48	8.264	390.1	5.591	221.8	0	0	0				
10:49	8.287	449.8	5.592	225.1	0	0	0				
10:49	8.361	506.2	5.589	228.5	0	0	0				
10:50	0	0	0	0	0	0	0	Lower Pump Rate			
10:50	8.291	435.8	2.017	230.3	0	0	0				
10:50	8.266	458.3	2.023	231.6	0	0	0				
10:51	8.255	476.6	2.017	232.8	0	0	0				
10:52	8.213	501.5	2.015	234	0	0	0				
10:52	0	0	0	0	0	0	0	Lower Pump Rate			
10:52	8.176	507.1	1.095	235	0	0	0				
10:53	8.16	514.8	1.082	235.7	0	0	0				
10:53	8.063	530.4	1.077	236.3	0	0	0				
10:54	8.028	540.2	1.075	236.9	0	0	0				
10:55	8.096	996.5	2246E-5	237.4	0	0	0				
10:55	0	0	0	0	0	0	0	Bump Top Plug			
10:55	8.073	1008	1262E-9	237.4	0	0	0				
10:56	8.051	255.5	9243E-14	237.4	0	0	0				
10:56	8.046	4.453	6769E-18	237.4	0	0	0				
10:57	0	0	0	0	0	0	0	Shutdown			
10:57	0	0	0	0	0	0	0	End Job			
Post Job Summary											
Average Pump Rates, bpm					Volume of Fluid Injected, bbl						
Slurry	N2		Mud	Maximum Rate	Total Slurry	Mud		Spacer	N2		
5	0		0	5.5	140	0		26	0		
Treating Pressure Summary, psi					Breakdown Fluid						
Maximum	Final	Average		Bump Plug to	Breakdown	Type	Volume		Density		
1000	1000	200		1000	0		0 bbl		0 lb/gal		
Avg. N2 Percent		Designed Slurry Volume			Displacement		<input type="checkbox"/> Cement Circulated to Surface?		Volume 0 bbl		
0 %		0 bbl			70.5 bbl		<input type="checkbox"/> Washed Thru Perfs To		0 ft		
Customer or Authorized Representative					Dowell Supervisor			<input type="checkbox"/> Circulation Lost			
LARRY LOVE					Jeffrey Dutton			<input checked="" type="checkbox"/> Job Completed			

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Cementing Service Report

Customer: **MOBIL DRILLING** Job Number: **20028832**

Well Kansas University Unit #1 2		Location (legal) Sec 29-33S-35W		Dowell Location Ulysses, KS		Service Date 11/3/97					
Field Hugoton		Formation Name/Type Dirty-Sandstone		Deviation 0 °	Bit Size 12.3 in	Well MD 765 ft	Well TVD 765 ft				
County Stevens		State/Province Ks		BHP 0 psi	BHST 0 °F	BHCT 0 °F	Pore Press. Gradient 0 psi/ft				
Rig Name NORSEMAN 2	Drilled For Gas	Service Via Land		Casing/Liner							
Offshore Zone	Well Class New	Well Type Development		Depth, ft 754	Size, in 8.63	Weight, lb/ft 24	Grade 				
Drilling Fluid Type Bentonite	Max. Density 9.3 lb/gal	Plastic Viscosity 0 cp		Tubing/Drill Pipe							
Service Line Cementing	Job Type Cem Surface Casing		Depth, ft 0	Size, in 0	Weight, lb/ft 0	Grade 	Thread 				
Max. Allowed Tubing Pressure 0 psi	Max. Allowed Ann. Pressure 0 psi	Wellhead Connection Single cement head		Perforations/Open Hole							
Service Instructions Cement and equipment to safely cement 8 5/8 surface casing as per customer's request. Loc #63440 Acc. Code 4903 I.D. JLLASITE Field Est. \$5893.93 <div style="font-size: 2em; opacity: 0.5; text-align: center;">ORIGINAL</div>				Top, ft 0	Bottom, ft 0	spf 0	No. of Shots 0	Total Interval 0 ft			
				Diameter 0	in 0	Treat Down Casing	Displacement 45.5 bbl	Packer Type 	Packer Depth 0 ft		
				Tubing Vol. 0 bbl	Casing Vol. 48 bbl	Annular Vol. 0 bbl	Open Hole Vol. 0 bbl				
				Casing Tools		Squeeze Job					
				Shoe Type: Guide		Squeeze Type					

Casing/Tubing Secured <input type="checkbox"/>		1 Hole Volume Circulated prior to Cementing <input checked="" type="checkbox"/>		Shoe Depth: 754 ft		Tool Type:	
Lift Pressure: 240 psi		Pipes Reciprocated <input type="checkbox"/>		Stage Tool Type		Tool Depth: 0 ft	
Pipes Rotated <input type="checkbox"/>		Top Plugs: 1		Bottom Plugs: 0		Stage Tool Depth: 0 ft	
No. Centralizers: 4		Cement Head Type: Single		Collar Type: Other		Tail Pipe Size: 0 in	
Job Scheduled For: 11/6/97 1:00		Arrived on Location: 11/6/97 1:00		Collar Depth: 715 ft		Tail Pipe Depth: 0 ft	
				Sqz Total Vol: 0 bbl			

Time	CumVol	Density	Pressure U1	TotFlowrate	Message		
24 hr clock	bbl	ppg	psi	bpm			
4:23	0	0	0	0	0	0	START ACQUISITION
4:23	0	8.18	-2528E-12	0	0	0	
4:24	0	0	0	0	0	0	Pressure Test Lines
4:24	.2261	8.188	1950	3418E-5	0	0	
4:24	0	0	0	0	0	0	Bleed Off Pressure
4:25	.2279	8.166	19.4	2137E-10	0	0	
4:25	0	0	0	0	0	0	Reset Volume
4:25	0	0	0	0	0	0	[CumVol]=.2279 bbl
4:25	0	0	0	0	0	0	Start Pumping Water
4:26	.3228	8.262	93.24	3.065	0	0	
4:26	4.222	8.341	188.5	5.594	0	0	
4:27	8.451	8.352	186.6	5.592	0	0	
4:28	12.67	8.37	172.3	5.592	0	0	
4:29	16.88	8.298	185.3	5.592	0	0	
4:29	21.11	8.734	189.3	5.591	0	0	
4:30	25.33	8.703	184.8	5.592	0	0	
4:30	0	0	0	0	0	0	[CumVol]=25.7 bbl
4:30	0	0	0	0	0	0	Reset Volume
4:30	0	0	0	0	0	0	Start Mixing Lead Slurry
4:31	3.746	13.4	261.4	5.591	0	0	
4:32	7.964	12.59	221.4	5.592	0	0	

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Page 4 of 3 Kansas

Well		Field			Service Date		Customer		Job Number	
Kansas University Unit #1 #2		Hugoton			11/3/97		MOBIL DRILLING		20028832	
Time	CumVol	Density	Pressure U1	TotFlowrate				Message		
24 hr clock	bbl	ppg	psi	bpm						
4:32	12.19	12.6	210.7	5.591	0	0	0			
4:33	16.41	12.17	200	5.592	0	0	0			
4:34	20.62	12.88	189.6	5.594	0	0	0			
4:35	24.84	12.6	163.3	5.592	0	0	0			
4:36	29.06	12.45	145.6	5.592	0	0	0			
4:36	33.27	12.8	142.9	5.599	0	0	0			
4:37	37.49	13.35	155.6	5.591	0	0	0			
4:38	41.72	12.46	133.3	5.592	0	0	0			
4:39	45.93	12.95	156.7	5.592	0	0	0			
4:39	50.15	12.81	157.5	5.601	0	0	0			
4:40	54.36	12.73	149.4	5.593	0	0	0			
4:41	58.59	12.82	151.3	5.592	0	0	0			
4:42	62.81	12.74	143.2	5.589	0	0	0			
4:42	67.02	12.82	144.2	5.592	0	0	0	ORIGINAL		
4:43	71.24	12.84	141.5	5.592	0	0	0			
4:44	75.46	12.7	140.1	5.592	0	0	0			
4:45	79.68	13.01	141.8	5.592	0	0	0			
4:45	83.9	12.96	134.8	5.592	0	0	0			
4:46	88.13	13.06	133.6	5.592	0	0	0			
4:47	92.34	12.88	134.1	5.596	0	0	0			
4:47	0	0	0	0	0	0	0	[CumVol]=93.19 bbl		
4:47	0	0	0	0	0	0	0	Reset Volume		
4:47	0	0	0	0	0	0	0	Start Mixing Tail Slurry		
4:48	3.278	13.8	160.3	5.595	0	0	0			
4:48	7.505	14.94	208.2	5.592	0	0	0			
4:49	11.72	14.55	199	5.592	0	0	0			
4:50	15.94	14.8	193.1	5.592	0	0	0			
4:51	20.15	14.62	175.9	5.592	0	0	0			
4:51	24.38	14.7	174.3	5.583	0	0	0			
4:52	28.6	14.83	168.9	5.592	0	0	0			
4:53	32.81	14.9	162.1	5.591	0	0	0			
4:54	37	14.33	78.9	4.027	0	0	0			
4:54	0	0	0	0	0	0	0	Shutdown		
4:54	0	0	0	0	0	0	0	[CumVol]=37.27 bbl		
4:54	0	0	0	0	0	0	0	Reset Volume		
4:54	0	0	0	0	0	0	0	Drop Top Plug		
4:54	0	0	0	0	0	0	0	Start Displacement		
4:54	3818E-7	13.67	-14.94	3501E-8	0	0	0			
4:55	3838E-7	13.44	-14.47	2372E-13	0	0	0			
4:56	3838E-7	13.31	-13.18	1607E-18	0	0	0			
4:57	3838E-7	13.13	-10.3	1088E-23	0	0	0			
4:57	1.295	11.46	130.1	5.615	0	0	0			
4:58	5.597	8.799	61.61	5.712	0	0	0			
4:59	9.916	8.502	65.83	5.708	0	0	0			
5:00	14.22	8.545	85.32	5.711	0	0	0			
5:00	18.53	8.589	115.7	5.71	0	0	0			
5:01	22.84	8.576	146.6	5.71	0	0	0			
5:02	27.1	8.301	197.5	5.592	0	0	0			
5:03	31.32	8.295	211.8	5.592	0	0	0			
5:03	35.53	8.254	239.4	5.592	0	0	0			
5:04	0	0	0	0	0	0	0	Lower Pump Rate		
5:04	39.65	8.224	216.1	3.79	0	0	0			
5:05	0	0	0	0	0	0	0	Returns at Surface/LL 2 4 1000		

Well		Field			Service Date		Customer		Job Number	
Kansas University Unit #1 #2		Hugoton			11/3/97		MOBIL DRILLING		20028832	
Time	CumVol	Density	Pressure U1	TotFlowrate				Message		
24 hr clock	bbl	ppg	psi	bpm						
5:05	41.18	8.197	208.1	1.901	0	0	0			
5:06	42.62	8.138	221.4	1.899	0	0	0			
5:06	44.05	8.107	231.1	1.9	0	0	0			
5:07	45.36	8.077	230.6	1.21	0	0	0			
5:08	46.15	7.874	644.9	.1378	0	0	0			
5:08	0	0	0	0	0	0	0	Bump Top Plug		
5:09	46.15	7.888	666.8	933E-9	0	0	0			
5:09	46.15	7.89	667.3	6321E-15	0	0	0			
5:09	0	0	0	0	0	0	0	Bleed Off Pressure		
5:10	0	0	0	0	0	0	0	End Job		
Post Job Summary										
Average Pump Rates, bpm					Volume of Fluid Injected, bbl					
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2			
4.5	0	0	5.6	125	0	26	0			
Treating Pressure Summary, psi					Breakdown Fluid					
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density			
240	660	75	660	0		0 bbl	0 lb/gal			
Avg. N2 Percent	Designed Slurry Volume	Displacement		<input checked="" type="checkbox"/> Cement Circulated to Surface? Volume 5 bbl <input type="checkbox"/> Washed Thru Perfs To 0 ft 15 SKS						
0 %	0 bbl	45.6 bbl								
Customer or Authorized Representative				Dowell Supervisor				<input type="checkbox"/> Circulation Lost <input checked="" type="checkbox"/> Job Completed		
Larry Love				Charley King						

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