

Operator Name Mobil Oil Corporation Lease Name Cunningham #1 Unit Well # 6
 Sec. 13 Twp. 34S Rge. 37 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 checked="" type="checkbox"/> No	<input type="checkbox"/> Log Formation (Top), Depth and Datums <input type="checkbox"/> Sample Name Top Datum
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:	NO LOGS RUN	

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#	738	Class C Class C	210 175	50:50 C/poz 50:50 C/poz
Production Casing	7.875	5.500	14#	2954	Class C Class C	175 75	3% D79 2% B28

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
1 SPF	2694-2700	Acid: 1,500 gals 7.5% HCL	
	2735-2755	Fract: 28,644 gals 20# Crosslink gel	
	2786-2806	140,980 lbs 12/20 Brady Sand	
	2849-2864		

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 Inj. 9-7-96	Producing Method <input checked="" 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 530	Water Bbls.	Gas-Oil Ratio Gravity

Disposition of Gas: METHOD OF COMPLETION Production Interval
 Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled 2694
 (If vented, submit ACO-18.) Other (Specify) 2864

CEMENTING SERVICE REPORT

Schlumberger
Dowell

TREATMENT NUMBER 128571 DATE 8-14-96
STAGE DS DISTRICT 03 12AKS

DS-466-A PRINTED IN U.S.A.

WELL NAME AND NO. Cunningham 1-6 LOCATION (LEGAL) Sec 13-34S-37W.
FIELD-POOL Hugoton FORMATION Surface
COUNTY/PARISH ST. EUENS STATE KS API. NO.

RIG NAME: Noisman #2
WELL DATA: BIT SIZE 12 1/4 CSG/Liner Size 8 5/8 BOTTOM TOP
TOTAL DEPTH 747 WEIGHT 29
 ROT CABLE FOOTAGE 738
MUD TYPE GRADE
 BHST BHCT THREAD 8RD
MUD DENSITY LESS FOOTAGE SHOE JOINT(S) 42 TOTAL
MUD VISC. Disp. Capacity 445

ORIGINAL

NAME Mobil Oil
AND
ADDRESS
ZIP CODE

SPECIAL INSTRUCTIONS Safety Cement surface casing
As directed by customer

NOTE: Include Footage From Ground Level To Head In Disp. Capacity
Float TYPE DEPTH 676 Stage Tool TYPE DEPTH
SHOE TYPE DEPTH 738

IS CASING/TUBING SECURED? YES NO
LIFT PRESSURE 250 PSI CASING WEIGHT + SURFACE AREA (3.14 x R²)
PRESSURE LIMIT 2000 PSI BUMP PLUG TO 850 PSI
ROTATE RPM RECIPROCAT FT No. of Centralizers

Head & Plugs TBG DP. SQUEEZE JOB
 Double SIZE TOOL TYPE
 Single WEIGHT DEPTH
 Swage GRADE TAIL PIPE: SIZE DEPTH
 Knockoff THREAD TUBING VOLUME Bbls
TOP OR NEW USED CASING VOL. BELOW TOOL Bbls
BOT OR DEPTH TOTAL Bbls
ANNUAL VOLUME Bbls

JOB SCHEDULED FOR TIME 2230 DATE: 8-14-96 ARRIVE ON LOCATION TIME: 2130 DATE: 8-14-96 LEFT LOCATION TIME: 0600 DATE: 8-15-96

TIME	PRESSURE		VOLUME PUMPED BBL		INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL
	TBG OR D.P.	CASING	INCREMENT	CUM				
0001 to 2400								PRE-JOB SAFETY MEETING
0420								PSF TEST TO 2020 PSI
0421		<u>110</u>	<u>25</u>	<u>25</u>	<u>5.5</u>	<u>H2O</u>	<u>8.3</u>	START H2O Ahead
0426		<u>140</u>	<u>71</u>	<u>25</u>	<u>5.5</u>	<u>CMT</u>	<u>12.8</u>	START Lead Cement
0439		<u>100</u>	<u>39</u>	<u>96</u>	<u>5.5</u>	<u>CMT</u>	<u>14.6</u>	START Tail Cement
0449				<u>135</u>				Shutdown
0452		<u>400</u>	<u>40</u>	<u>135</u>		<u>H2O</u>	<u>8.3</u>	Drop Plug START Displacement
0501		<u>360</u>	<u>4.5</u>	<u>175</u>	<u>2.5</u>	<u>H2O</u>	<u>8.3</u>	Lower Pump rate
0504		<u>850</u>		<u>179.5</u>				Bump Plug shutdown
								Bump Plug TO 850 PSI, Bleed TO 340 PSI
								80 SKS TO SURFACE

STATE CORPORATION COMMISSION
RECEIVED
NOV 2 1 1996
CONSERVATION DIVISION
Topeka, Kansas

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS		SLURRY MIXED	
			BBLs	DENSITY		
1.	<u>210</u>	<u>1.89</u>	<u>50/50 PZC + 6% D20 + 3% SI + 5% D44 + 1/4" SK D29</u>	<u>70.6</u>	<u>12.8</u>	
2.	<u>175</u>	<u>1.22</u>	<u>50/50 PZC + 2.5% SI + 1/4" SK D29</u>	<u>38</u>	<u>14.6</u>	
3.						
4.						
5.						
6.						

BREAKDOWN FLUID TYPE VOLUME DENSITY PRESSURE 850 MAX. 140 MIN.
 HESITATION SQ. RUNNING SQ. CIRCULATION LOST YES NO Cement Circulated To Surf. YES NO 27 Bbls
BREAKDOWN PSI FINAL PSI DISPLACEMENT VOL. 44.5 Bbls
Washed Thru Perfs YES NO TO FT. MEASURED DISPLACEMENT WIRELINE

PERFORATIONS TO TO CUSTOMER REPRESENTATIVE Dennis Russell DS SUPERVISOR Darren D. Shilling

CEMENTING SERVICE REPORT

Schlumberger

Dowell

DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER 6573	DATE 8-17-96
STAGE 1	DS 03
DISTRICT 12	

DS-496-A PRINTED IN U.S.A.

WELL NAME AND NO. Cunningham 1-6	LOCATION (LEGAL) Sec. 13-34S-37W	RIG NAME: masmae 2
FIELD-POOL HUGOTON	FORMATION CHGSE	WELL DATA:
COUNTY/PARISH STEVENS	STATE KS	API. NO.
NAME mabil	ORIGINAL	
AND		
ADDRESS		
ZIP CODE		

BIT SIZE 7 1/8	CSG/Liner Size 5 1/2	BOTTOM	TOP
TOTAL DEPTH 2985	WEIGHT 17		
PROT <input type="checkbox"/> CABLE	FOOTAGE 2885	2962	
MUD TYPE	GRADE 4355?		
<input type="checkbox"/> BHST <input type="checkbox"/> BHCT	THREAD GRD		
MUD DENSITY	LESS FOOTAGE SHOE JOINT(S) 2984	2418	TOTAL
MUD VISC.	Disp. Capacity 72.2	71.7	

NOTE: Include Footage From Ground Level To Head In Disp. Capacity

Float	TYPE auto FILL	DEPTH 2989	TYPE	DEPTH
SHOE	TYPE CMT 1050	DEPTH 2983	TYPE	DEPTH

SPECIAL INSTRUCTIONS
*Driflow cont. 5 1/2 LBS 2000R
customer instructions*

IS CASING/TUBING SECURED? YES NO

LIFT PRESSURE PSI CASING WEIGHT SURFACE AREA (3.14 x R²)

PRESSURE LIMIT PSI BUMP PLUG TO **1175** PSI

ROTATE RPM RECIPROCATE FT No. of Centralizers

Head & Plugs TBG D.P. SQUEEZE JOB

Double WEIGHT GRADE THREAD

Single GRADE THREAD

Swage GRADE THREAD

Knockoff THREAD

TOOL TYPE DEPTH

TAIL PIPE: SIZE DEPTH

TUBING VOLUME Bbls

CASING VOL. BELOW TOOL Bbls

TOTAL Bbls

ANNUAL VOLUME Bbls

TIME	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR			ARRIVE ON LOCATION		LEFT LOCATION	
	TBG OR D.P.	CASING	INCREMENT	CUM	TIME	DATE	TIME	DATE	TIME	DATE	
0001 to 2400											
1558		2000	0	0							
1600		200	11	0							
1603		240	86	11	5:15	CMT	11.5				
1619		320	18	97	5:15	CMT	14.8				
1623		310		115		H2O	9.3				
1627		200	71.8	X	6	11	11				
1634		290	40	6	11	11	11				
1637		600	62	6	11	11	11				
1638		460	64	2	11	11	11				
1641		560	20	2	11	11	11				
1642		1135	71.8								
1643											

RECEIVED
STATE CORPORATION COMMISSION
NOV 21 1996
CONSERVATION DIVISION
Wichita Falls

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
							BBLs	DENSITY
1.	175	2.75	C + 3% P-29 + 0.2% D-46 + 4% D-29				86	11.5
2.								
3.	75	1.37	C + 2% P-28 + 2% S-1 + 0.6% D-6 + 0.2% D-46 + 4% D-29				18	14.8
4.								
5.								
6.								

BREAKDOWN FLUID TYPE VOLUME DENSITY PRESSURE MAX. 1135 MIN: 200

HESITATION SQ. RUNNING SQ. CIRCULATION LOST YES NO Cement Circulated To Surf. YES NO Bbls

BREAKDOWN PSI FINAL PSI DISPLACEMENT VOL. 71.8 Bbls TYPE OF WELL OIL STORAGE BRINE WATER GAS INJECTION WILDCAT

Washed Thru Perfs YES NO TO FT. MEASURED DISPLACEMENT WIRELINE

PERFORATIONS TO TO CUSTOMER REPRESENTATIVE: **MOORE & DENNIS RUSSELL** DS. SUPERVISOR: **KEITH BERMAN**