

SIDE TWO

Operator Name Mobil Oil Corporation Lease Name Herschel Logan Well # 1
 Sec. 1 Twp. 32S 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 Record:

Frac'd formation in the following stages:

15,000 gals gelled diesel pad
 7,500 gals gelled diesel w/1/2 ppg 20/40 sand
 5,000 gals gelled diesel w/1 ppg 20/40 sand
 5,000 gals gelled diesel w/2 ppg 20/40 sand

Core #1:

6102-50

Name	Top	Bottom
Chase	2610	
Winfield	2678	
Council Grove	2919	
Admire	3187	
Wabaunsee	3308	
Shawnee	3727	
Lansing	4224	
Kansas City	4513	
Marmaton	4956	
Cherokee	5160	
Morrow	5583	
Chester	5850	
Ste. Genevieve	6134	
St. Louis	6240	

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
Surface	12-1/4"	9-5/8"	36#	1818'	65/35POZ "H"	600 100	6% gel + 3% CaCl ₂ 3% CaCl ₂
Production	8-3/4"	5-1/2"	15.5#	6334'	50/50POZ 65/35POZ	400 100	6% gel + 3% CaCl ₂
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			(Amount and Kind of Material Used)		Depth	
4	6099'-6112'			(see acid/frac record detailed above)			
TUBING RECORD				Liner Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Size: 2-7/8"		Set At: 6130'		Packer at: 6037'			
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	
-----		-----	Trace	-----	-----	-----	
		Bbls	MCF	Bbls	CFPB		

METHOD OF COMPLETION

Production Interval

Disposition of gas: Vented Open Hole Perforation
 Sold Other (Specify) 6099'-6112'
 Used on Lease Dually Completed Commingled

190 sx 50/50 POZ + 2% CaCl₂

Operator Name MOBIL OIL CORPORATION Lease Name HERSCHEL LOGAN Well # 1

Sec 1 Twp 32S Rge 35 X West East County STEVENS

RECOMPLETION FORMATION DESCRIPTION
 Log Sample

Name NO CHANGE FROM ACO-1 Top Bottom

ADDITIONAL CEMENTING/SQUEEZE RECORD					
Purpose:	Depth		Type of Cement	# Sacks Used	Type & Percent Additives
	Top	Bottom			
Perforate					
Protect Casing					
Plug Back TD					
Plug Off Zone					

Shots Per Foot	PERFORATION RECORD	Acid, Fracture, Shot, Cement Squeeze Record
	Specify Footage of Each Interval Perforated	
4 SPF	5976' - 5981'	ACIDIZED W/2500 GALS WF-140 PAD, 2500 GALS GELLED ACID

PBTD 6290' FT. Plug Type Cement

TUBING RECORD:

Size 2-7/8 Set At 6010 FT. Packer At NA FT. Was Liner Run Y X N

Date of Resumed Production, Disposal or Injection TA'D 10/18/88.

Estimated Production Per 24 Hours: bbl/oil bb/water
 MCF gas gas-oil ratio

4.551 6.5 05208 51339 01

STATE OF KANSAS - CORPORATION COMMISSION
 PRODUCTION TEST & GOR REPORT

Conservation Division Form C-5 Revised

TEST: Initial Annual Workover Reclassification TEST DATE: 11-14-85

Lease Mobil Oil Corp. Hershel Logan Well No. #1

County Stevens Location C. SW SW Section 1 Township 32 Range 35 Acres

Field ~~Lanabee~~ North Shuck Reservoir Chester Pipeline Connection

Completion Date 7-2-85 Type Completion(Describe) Plug Back T.D. 6290 Packer Set At 6037

Production Method: Type Fluid Production API Gravity of Liquid/Oil

Flowing Pumping Gas Lift Saltwater & Oil 40.0

Casing Size 5 1/2 Weight 15.5 I.D. 4.950 Set At 6334 Perforations 6099-6112 To

Tubing Size 2 3/4 Weight 6.5 I.D. 2.441 Set At 6130 Perforations To

Pretest: Starting Date Time Ending Date Time Duration Hrs.

Test: Starting Date 11-13-85 Time 1:00 Ending Date 11-14-85 Time 1:00 P.M. Duration Hrs. 24

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure			Separator Pressure			Choke Size			
Casing:	Tubing:								
30	30		28						
Bbls./In.	Tank	Starting Gauge			Ending Gauge			Net Prod. Bbls.	
Size	Number	Feet	Inches	Barrels	Feet	Inches	Barrels	Water	Oil
		6	1	122	7	0	140		18
	300	6375	7	1 1/2	142.78	8	0	160	10.5 18

GAS PRODUCTION OBSERVED DATA

Orifice Meter Connections				Orifice Meter Range				
Pipe Taps:	Flange Taps:	Differential:	Static Pressure:					
Measuring Device	Run-Prover-Tester Size	Orifice Size	Meter-Prover In. Water	Tester Pressure In. Merc.	Pressure Psig or (Pd)	Diff. Press. (hw) or (hd)	Gravity Gas (Gg)	Flowing Temp. (t)
Orifice Meter					28			40
Critical Flow Prover	2"	1/8			28		68	
Orifice Well Tester								

GAS FLOW RATE CALCULATIONS (R)

Coeff. (Fb)(Fp)(OWTC)	Meter-Prover Press. (Psia)(Pm)	Extension $\sqrt{hw \times Pm}$	Gravity Factor (Fg)	Flowing Temp. Factor (Ft)	Deviation Factor (Fpv)	Chart Factor (Fd)
.2716	42		1.213	1.020	1.000	

Gas Prod. MCFD Flow Rate (R): 14 Oil Prod. Bbls./Day: 18 Gas/Oil Ratio (GOR) = 778 Cubic Ft. per Bbl.

I, undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct. Executed this the 14th day of Nov. 1985

For Offset Operator For State For Company

NOV 20 1985