

15-175-20705-00-00

STATE OF KANSAS - CORPORATION COMMISSION
PRODUCTION TEST & GOR REPORT

Conservation Division Form C-5 Revised

TYPE TEST: (Initial) Annual Workover Reclassification TEST DATE: 12-6-84

Company Northern Pump Company Lease Heatherington Well No. 1

County Seward Location SW/4 Section 7 Township 35 Range 33 W Acres 624

Field LIBERAL, S.E. Reservoir Morrow Pipeline Connection Phillips Petroleum Co.

Completion Date 8-25-83 Type Completion(Describe) Single Gas Plug Back T.D. 6409' Packer Set At None

Production Method: (Flowing) Pumping Gas Lift Type Fluid Production Condensate API Gravity of Liquid/Oil 66°

Casing Size 5-1/2" Weight 15.50# I.D. 5" Set At 6409' Perforations 6251' To 6263'

Tubing Size 2-3/8" EUE Weight 4.6# I.D. 2" Set At 6262' Perforations To

Pretest: Starting Date Time Ending Date Time Duration Hrs.

Test: Starting Date 12-5-84 Time 11:45 AM Ending Date 12-6-84 Time 11:45 AM Duration Hrs. 24 hrs.

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure			Separator Pressure			Choke Size				
Casing:	Tubing:									
Bbls./In.	Tank Size	Number	Starting Gauge Feet	Inches	Barrels	Ending Gauge Feet	Inches	Barrels	Net Prod. Bbls. Water	Oil
Pretest:										
Test:	300		2	7"	51.77	3	0	60.12		8.35
Test:										

GAS PRODUCTION OBSERVED DATA

Orifice Meter Connections			Orifice Meter Range					
Pipe Taps:	(Flange Taps:)		Differential: 50			Static Pressure: 250		
Measuring Device	Run-Prover Tester Size	Orifice Size	Meter-Prover In. Water	Tester In. Merc.	Pressure Psig or (Pd)	Diff. Press. (hw) or (hd)	Gravity Gas (Gg)	Flowing Temp. (t)
Orifice Meter	3" Meter	1 1/2"			166	37.8	.650	60°
Critical Flow Prover								
Orifice Well Tester								

GAS FLOW RATE CALCULATIONS (R)

Coeff. (Fb)(Fp)(OWTC)	Meter-Prover Press. (Psia)	Extension (Pm) /hw x Pm	Gravity Factor (Fg)	Flowing Temp. Factor (Ft)	Deviation Factor (Fpv)	Chart Factor (Fd)
11.41	180.6	82.62	1.240	60°	1.017	

Gas Prod. MCFD Flow Rate (R): 1189 Oil Prod. Bbls./Day: 8.35 Gas/Oil Ratio (GOR) = 142.5MCF per Bbl. Cubic Ft.

The 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 6th day of Dec 1984

For Offset Operator Kenneth Beahm For State RECEIVED STATE CORPORATION COMMISSION For Company

DEC 07 1984

CONSERVATION DIVISION Wichita, Kansas

12-784