REPORT NO: 00189F

TEST DATE: Sept. 21, 1985

WELL PERFORMANCE TESTING™ REPORT

A Production System Analysis (NODAL™)
Based on Model Verified™ Interpretation

FLOPETROL JOHNSTON
Schlumberger

PAGE NO: One

Company: CLEMENTS ENERGY INC.

Well: NEW MEXICO STATE #15-1

TEST IDENTIFICATION

Test Type	OH DST CONV.
Test No.	TWO
Formation	WOLFCAMP
Test Interval (ft)	9625 to 9680
Reference Depth	RKB

WELL LOCATION

Field	WILDCAT
County	LEA
State	NEW MEXICO
Sec/Twn/Rng	15/14/34E
Elevation (ft)	4146 @ K.B.

HOLE CONDITIONS

Total Depth (MD/TVD) (ft)	9680
Hole Size (in)	7.875
Csg/Liner I.D. (in)	--
Perf'd Interval/Net Pay (ft)	--/22
Shot Density/Diameter (in)	--

MUD PROPERTIES

Mud Type	FRESH WATER
Mud Weight (lb/gal)	9.1
Mud Resistivity (OHM-M)	1.0 @ 80°F
Filtrate Resistivity (OHM-M)	--
Filtrate Chlorides (PPM)	3400

INITIAL TEST CONDITIONS

Initial Hydrostatic (psi)	4698
Gas Cushion Type	NONE
Surface Pressure (psi)	--
Liquid Cushion Type	NONE
Cushion Length (ft)	--

TEST STRING CONFIGURATION

Pipe Length (ft)/I.D. (in)	9034/3.826
Collar Length (ft)/I.D. (in)	555/2.25
Packer Depth(s) (ft)	9619 & 9625
BH Choke Size (in)	0.94
Gauge Depth (ft)/Type	9674/J-200

NET PIPE RECOVERY

Volume	Fluid Type	Properties
90 FEET	Drlg. Fluid	W/ Oil Condensate
	Rw= 1.0 @ 80°F, 3400 PPM CHL	
285 FEET	Formation Fluid	Rw=0.13 @ 80°F
		36000 PPM CHL

NET SAMPLE CHAMBER RECOVERY

Volume	Fluid Type	Properties
0.42 FT^3	Gas	Gr=0.65 EST.
60 CC	Oil	TSTM, Condensate
1740 CC	Form. Fluid	Rw=0.13 @ 80°F,
		38000 PPM CHL
Pressure: 205	GOR: 1110	GLR: 37

INTERPRETATION RESULTS

Model of Behavior	--
Fluid Type Used for Analysis	--
Reservoir Pressure (psi)	--
Transmissibility (md-ft/cp)	--
Effective Permeability (md)	--
Skin Factor/Damage Ratio	--
Storativity ratio	--
Interporosity Flow Coeff	--
Distance To An Anomaly (ft)	--
Radius of Investigation (ft)	--
Potentiometric Surface (ft)	--

ROCK/FLUID/WELLBORE PROPERTIES

Oil API	Too small to measure
Basic Solids	--
Gas Gravity	0.65 EST.
Water Cut (%)	97
Viscosity (cp)	--
Total Compressibility (1/psi)	--
Porosity (%)	25
Reservoir Temperature (F)	144

PRODUCTION RATE DURING TEST:

COMMENTS:

Test two on the NM State #15-1 was mechanically successful, although the recovery was primarily formation fluid with about 3% hydrocarbons. Due to a rig malfunction, the initial shut-in was cycled twice to assure a good test. A gas sample was collected from the sample chamber and taken to New-Tex on 9/23/85 for analysis.

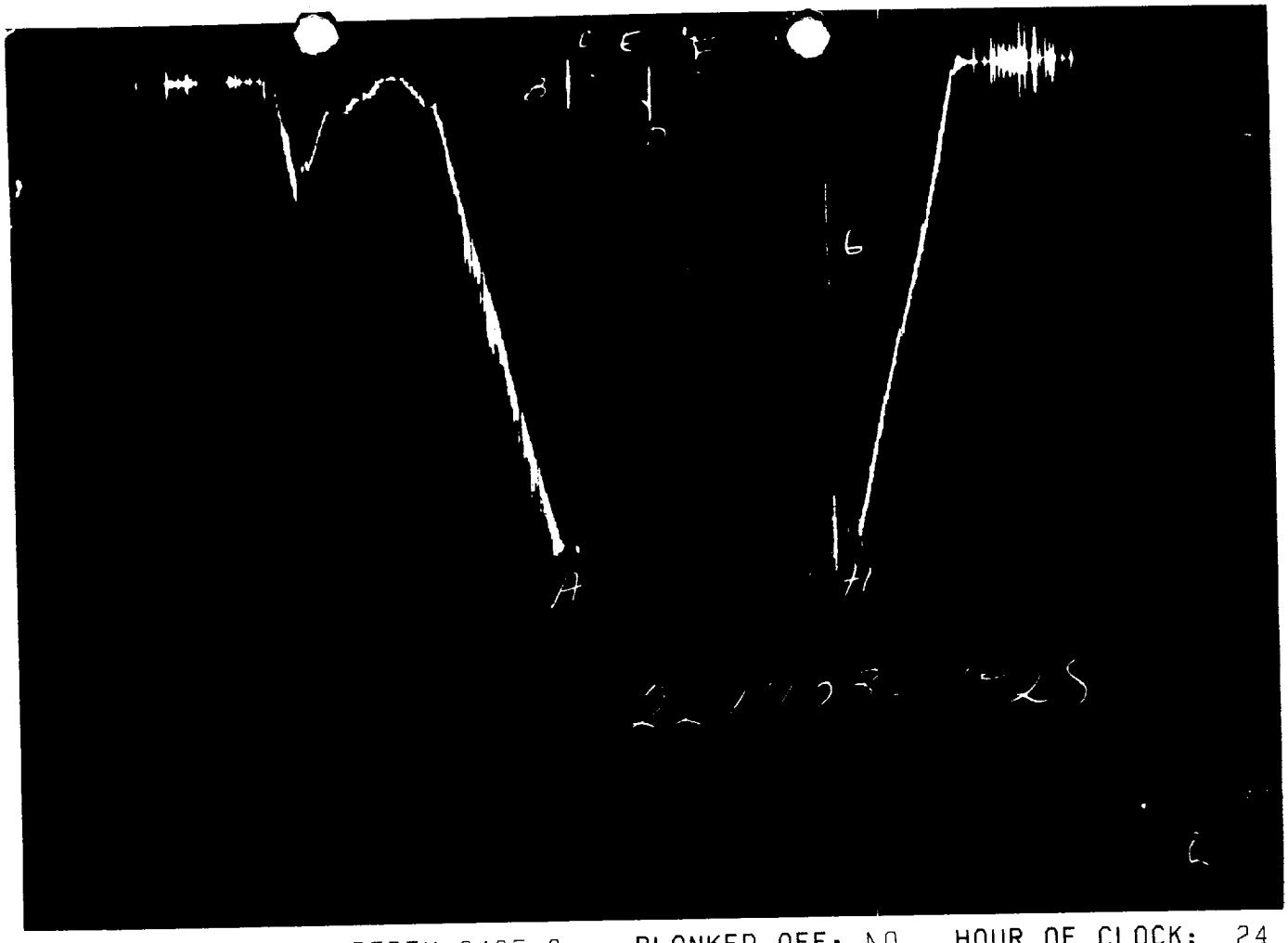
JOHNSTON

umberger

DST EVENT SUMMARY

Field Report # 00189F

DATE (M/D/Y)	TIME (HR:MIN)	EVENT E.T. (MIN)	EVENT DESCRIPTION	SURFACE PRESSURE (PSIG)	FLOOR MANIFOLD CHOKE SIZE (INCH)
9/21/85	21:17	—	SET PACKER		
	21:19	—	OPENED TEST TOOL FOR INITIAL FLOW	1/4 in.	Bubble Hose
	21:20		Very weak initial blow at surface	1/2 in.	
	21:26			1 in.	
	21:32		Cycled tool for initial shut-in	1½ in.	
	21:34		Recycled due to rig malfunction		
	21:38	—	CLOSED TEST TOOL FOR INITIAL SHUT-IN		
	22:40		Finished initial shut-in		
	22:42	—	OPENED TEST TOOL FOR FINAL FLOW	0	Bubble Hose
	22:47		Bubbles, then no blow for 5 minutes		
	22:48			1/4 in.	
	22:56			1/2 in.	
	23:08			1 in.	
	23:16			2 in.	
	23:22			3 in.	
	23:27		Switch to ounce guage	2 oz.	
	23:30			3 oz.	
	23:34			5 oz.	
	23:38			6 oz.	
	23:42	—	CLOSED TEST TOOL FOR FINAL SHUT-IN	7 oz.	
9/22/85	01:48	—	FINISHED FINAL SHUT-IN		
	01:55	—	UNSEATED PACKER		
	NA	—	REVERSED OUT		
			Waited till daylight & pulled to fluid		
	01:55	—	BEGAN TRIP OUT OF HOLE		
			Tripped string to bottom of casing		



GAUGE NO: 1928 DEPTH: 9405.0 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	4307	4301.6			
B	INITIAL FIRST FLOW	45	38.8	30.0	30.0	F
C	FINAL FIRST FLOW	45	37.2			
C	INITIAL FIRST CLOSED-IN	45	37.2	69.0	69.0	C
D	FINAL FIRST CLOSED-IN	270	302.2			
E	INITIAL SECOND FLOW	45	39.2	61.0	61.0	F
F	FINAL SECOND FLOW	45	39.2			
F	INITIAL SECOND CLOSED-IN	45	39.2	150.0	150.0	C
G	FINAL SECOND CLOSED-IN	1622	1677.6			
H	FINAL HYDROSTATIC	4307	4307.8			