

NEW MEXICO OIL CONSERVATION COMMISSION

HOBBS OFFICE O. C. C.

Form 10

SEP 22 10 53 AM '64 MIDLAND POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 1-1-64

Pool UNDESIGNATED Formation _____ County LEA
Initial X Annual _____ Specific _____ Date of Test 9-21-64
Company GREATHOUSE, PIERCE & DAVIS Lease FEDERAL Well No. 145
Unit N Sec. 3 Twp. 20 SOUTH Rge. 24 EAST Purchaser _____
Casing 4 1/2 Wt. 13 1/2 I.D. 3.920 Set at 13.2 Perf. 13.161 To 13.173
Tubing 2" Wt. 4.7 I.D. 1.995 Set at 13.173 Perf. _____ To _____
Gas Pay: From 13.161 To 13.173 L 13.167 xG .847 -GL 11.146 Bar. Press. 13.6
Producing Thru: Casing _____ Tubing X Type Well SINGLE GAS
Single-Bradenhead-G. G. or G.O. Dual _____
Date of Completion: _____ Packer _____ Reservoir Temp. 274°F

OBSERVED DATA

6" THORNBELL CRAVER FLOW BEAM

Tested Through (200000) (Choke) (200000)

Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI	5176									72 ME. 24
1.		3/8	2072		72					24 ME.
2.										
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_{wpf}}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	3.0380		2085	.9887	.8944	1.253	7.150
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio 17.130 cf/bbl.
Gravity of Liquid Hydrocarbons 62.3 deg.
C 9.936 (1-e⁻⁸) 0.570

Specific Gravity Separator Gas .72
Specific Gravity Flowing Fluid .72
P_c 515.4 P_c² 265,326

No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ⁻⁸)	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w /P _c
1.	2085	4347	70.4	4960	2825	6872	20,024	2621	0.500
2.									
3.									
4.									
5.									

Absolute Potential: 2.800 MCFPD; n 1.000COMPANY GREATHOUSE, PIERCE & DAVISADDRESS 609 MIDLAND NATIONAL BANK BLDG. MIDLAND, TEXASAGENT and TITLE P. E. JACOBS GAS ENGINEER

WITNESSED _____

COMPANY WEST ENGINEERING COMPANY

REMARKS

CASING PRESSURE NOT OBTAINED, NO PRESSURE CONNECTION

NO. 1 BPT DID NOT CONNECT IN STRAIGHT LINE (SEE 4 POINTS ON PLOT)

NO. 2 BPT, 1 POINT OF 24 HOUR DURATION

