NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND . POINT BACK PRESSURE TEST FOR AS WELL

Form C-122
Revised 9-1-65

Type Test: ☐ Initial ☐ Annual ☒ Special			Test Date: JUL 26-69		
Company: SABINE EXPLORATION CORP.	Connection: LLANO INC.				
Pool: SOUTHEAST LEA WOLFCAMP	Formation: WOLFCAMP			Unit: 160	
Completion Date: 12-29-68	Total Depth: 14643'	Plug Back TD: 14250'	Elevation: 3709'KB	Farm or Lease Name: SO. EAST LEA UNIT	
Csg. Size: 7 7/8	Wt.: 33.7	d: 6.875	Set At: 11980	Perforations: From 11410 To 11422	Well No.: No. 2
Tbg. Size: 2 3/8	Wt.: 4.70	d: 1.995	Set At: 11325	Perforations: From OPEN To ENDED	Unit: L Sec.: 25 Twp.: 20 Rge.: 35
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: GG 2 STRING 2 3/8" TUBING			Packer Set At: 11325'		County: LEA
Producing Thru: 2 3/8	Reservoir Temp. °F: 155 @ 11250'	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2		State: NEW MEXICO

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
11416	–	0.891	0.66	0.40	0.00		X	F

NO.	FLOW DATA: Prover Line Size	X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI	4	x 1"				1359		DUAL		24.0 HRS
1.	4	x 1" 12/64	80	16	62	870	92			3.0
2.	4	x 1" 11/64	66	4	63	967	92			2.0
3.	4	x 1" 9/64	58	2	64	1060	92			2.0
4.	4	x 1" 7/64	54	1	65	1144	92			2.0
5.										

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	4.753	38.62	93.2	.9981	1.059	–	194.1
2	4.753	17.80	79.2	.9971	1.059	–	89.3
3	4.753	11.93	71.2	.9962	1.059	–	59.8
4	4.753	8.20	67.2	.9952	1.059	–	41.1
5							

NO.	P_t	Temp. °R	T_r	Z
1	0.14	522	1.16	–
2.	0.12	523	1.16	–
3.	0.11	524	1.16	–
4.	0.10	525	1.17	–
5				

Gas Liquid Hydrocarbon Ratio 12100 Mcf/bbl.

A.P.I. Gravity of Liquid Hydrocarbons 54.5 Deg.

Specific Gravity Separator Gas 0.891 XXXXXXXXX

Specific Gravity Flowing Fluid XXXXX

Critical Pressure 665 P.S.I.A. – P.S.I.A.

Critical Temperature 450 R – R

P_c 1956.2 P_c^2 3826.7

NO	P_t^2	P_w **	P_w^2	$P_c^2 - P_w^2$
1	–	1430.2	2045.5	1781.2
2	–	1756.2	3084.2	742.5
3	–	1834.2	3364.3	462.4
4	–	1874.2	3512.6	314.1
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.148$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.974$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 383$

Absolute Open Flow 384.0 Mcfd @ 15.025 Angle of Slope θ 48° Slope, n 0.901

Remarks: * 5 1/2" LINER 20#, 4.778, 11840' TO 11565'

** BHP @ (-7707') 11416' USED FOR PRESSURE CALCULATION

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
Joe A. Ramey	COLEMAN PET. ENG.	JOE A. COLEMAN	JOE. A. COLEMAN