

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
MAR 9 1984
OIL CON. DIV.
DIST. 3

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 2-21-84	
Company Lobo Production				Connection	
Pool				Formation Dakota	
Completion Date		Total Depth 3585		Plug Back TD 3552	
Elevation		Farm or Lease Name Libra			
Csg. Size 3 1/2	Wt. d	Set At 3552	Perforations: From 3444 To 3546		Well No. 1
Thq. Size 1 1/4	Wt. d	Set At 3424	Perforations: From To		Unit Sec. Twp. Rge. C 14 32N 13W
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None	
Producing Thru Tubing		Reservoir Temp. °F @		Mean Annual Temp. °F	
Baro. Press. - P _a		County San Juan			
State New Mexico		Meter Run 6"x3/4"		Taps	
L	H	Gg	% CO ₂	% N ₂	% H ₂ S
Prover		Prover			

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI	8 days						573		573		
1.	2 X 3/4						3		91		3 hours
2.											
3.											
4.											
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							
2							
3							
4							
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ XXXXXXXXXX
3.					Specific Gravity Flowing Fluid _____ XXXXX
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _c 585	P _c ² 342225				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0320$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0239$
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²		
1		103	10609	331616		
2						
3						
4						
5						

Absolute Open Flow	135	Mcfd @ 15.025	Angle of Slope θ	53.13	Slope, n	.75
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Remarks:			
Approved By Commission:	Conducted By: TEFTELLER, INC.	Calculated By: NEIL TEFTELLER	Checked By:

TEFTELLER, INC.
RESERVOIR ENGINEERING DATA
Midland, Texas

Well : LIBRA NO. 1

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Field : BASIN DAKOTA

File 2-15220-AOF

CHRONOLOGICAL PRESSURE AND PRODUCTION DATA

1984 Date	Status of Well	Time	Elapsed Time		Daily Rate Gas MCF/D	Wellhead Pressure	
			Hrs.	Min.		Tbg	Csg
2-21	Arrived on location, shut-in,						
"	shut-in since 2-13-84 @						
"	10:00	07:00	189	00		573	573
"	Run static gradient traverse						
"	to 600' due to obstruction						
"	Open to test thru 3/4"x6"						
"	x2" positive choke	08:45	190	45		573	573
"	Dry gas	08:45	0	00			
"	"	09:00	0	15	192	6	151
"	"	09:15	0	30	107	2	101
"	light mist to surface	09:30	0	45	120	2.5	101
"	"	09:45	1	00	143	3.5	100
"	"	10:15	1	30	143	3.5	95
"	"	10:45	2	00	143	3.5	94
"	Mist stopped	11:15	2	30	143	3.5	92
"	Dry gas	11:45	3	00	132	3.0	91
"	Shut well in	11:45					

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Company LOBO PRODUCTION COMPANY Lease LIBRA Well No. 1
Field BASIN DAKOTA County SAN JUAN State NEW MEXICO
Formation DAKOTA Test Date FEBRUARY 21, 1984

Status of Well

DEPTH Feet	PRESSURE Psig	GRADIENT Psi/Ft.
0	575	
600*	580	0.008
1000		
2000		
3000		
3200		
3400		
3495	603	0.008

*Obstruction @ 609 feet

Datum Pressure Psig

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Elev. 6134 GL Datum
Total Depth 3585PB Perf. 3444-3546
Tubing 1 1/4 in. to 3424
Casing 3 1/2 in. to 3552
Casing Press. 575 Tubing Press. 575
Oil Level Water Level
Temperature 70 °F 600
Element No. 31196 Range 0-3000
Last Test Date
Pressure Last Test Date
B.H.P. Change Psi

DEPTH, FEET

PRESSURE POUNDS PER SQUARE INCH GAUGE