

RESERVOIR FLUID ANALYSIS REPORT

WELL: LO16-14

PRESSURE PSI ABSOLUTE	PRESSURE VOLUMEN RELATION at .129. °F RELATIVE VOL. V/Vsat	VISCOSITY OF OIL at .129. °F CENTIPOISE	DIFFERENTIAL LIBERATION at 129.°F					DENSITY OF RESERVOIR Liquid at .129. °F. Gms./cc.	“Y” = $\frac{(P_{SAT} - P)}{(P) (V/V_{SAT} - 1.000)}$	COMPRESSIBILITY FACTOR “Z” = $\frac{PV}{NRT}$	+ Bg	SPECIFIC GRAVITY LIBERATED GAS (AIR = 1.000)		
			CU. FT. GAS at 60°F. & 14.7 PSI ABSOLUTE/BBL											
			RESERVOIR OIL at .3580. PSI ABS. & .129. °F		STOCK TANK OIL at 14.7 PSI ABS. & 60°F		BARRELS RESERVOIR							
			LIBERATED	IN SOLUTION	LIBERATED	IN SOLUTION		OIL/BBL. STOCK TANK OIL V/Vs						
5000	0.9874	1.06						0.7356						
4500	0.9916	1.01						0.7325						
4216	0.9941							0.7307						
4000	0.9960	0.962						0.7293						
3900	0.9969							0.7286						
3800	0.9979	0.942						0.7279						
3700	0.9988							0.7272						
3600	0.9998							0.7265						
3580	1.0000	0.920				731	1.35	0.7263						
3535	1.0022													
3510	1.0035													
3490	1.0046													
3480	1.0051													
3420	1.0084													
3200		0.959				657	1.319			0.841	0.00436	0.689		
3075	1.0320								5.107					
2800		1.01				580	1.288			0.849	0.00502	0.676		
2640	1.0769								4.603					
2400		1.09				504	1.259			0.859	0.00592	0.665		
2215	1.1479								4.139					
2000		1.18				430	1.230			0.869	0.00718	0.655		
1860	1.2431								3.775					
1600		1.31				356	1.202			0.881	0.00908	0.649		
1580	1.3580								3.504					
1345	1.4999								3.288					
1200		1.48				283	1.175			0.895	0.01227	0.650		
1160	1.6589								3.126					
1000	1.8495								2.993					
940	1.9391								2.944					
800		1.73				207	1.147			0.913	0.01866	0.662		
720	2.4031								2.774					
610	2.7647								2.694					
530	3.1227								2.638					
400		2.13				126	1.116			0.939	0.03771	0.706		
370	4.2966								2.531					
150		2.61				62	1.089			0.968	0.09783	0.798		
0		3.72				0	1.033					1.728		

SEPARATOR FLASH ANALYSIS

FLASH CONDITIONS		GAS/OIL RATIO (scf/bbl) (A)	GAS/OIL RATIO (scf/STbbl) (B)	STOCK TANK OIL GRAVITY AT 60°F (°API)	FORMATION VOLUME FACTOR Bofb (C)	SEPARATOR VOLUME FACTOR (D)	SPECIFIC GRAVITY OF FLASHED GAS (Air=1.000)	OIL PHASE DENSITY (gm/cc)
psig	°F							
3580	129							0.7265
135	70	612	630			1.029	0.650*	0.8435
0	70	51	51	33.8	1.317	1.005	1.109	0.8512
			Rsfb=681					
3580	129							0.7266
90	70	638	650			1.019	0.667*	0.8475
0	70	35	35	33.7	1.319	1.005	1.093	0.8514
			Rsfb=685					
3580	129							0.7266
40	70	682	690			1.012	0.710*	0.8489
0	70	12	12	33.6	1.329	1.005	1.010	0.8522
			Rsfb=702					

* Collected and analyzed in the laboratory by gas chromatography.

(A) Cubic Feet of gas at 14.7 psia and 60°F per Barrel of oil at indicated pressure and temperature.

(B) Cubic Feet of gas at 14.7 psia and 60°F per Barrel of Stock Tank Oil at 60°F

(C) Barrels of saturated oil at 3580 psig and 129°F per Barrel of Stock Tank Oil at 60°F

(D) Barrels of oil at indicated pressure and temperature per Barrel of Stock Tank Oil at 60°F