

Schlumberger Testing Services

Schlumberger In-House DST Interpretation Prepared For

COBRA OIL & GAS CORPORATION

3-10-36 675/5 9 114/20 Unit M

WELL: LEWIS UNIT #1 FIELD: S. CROSSROADS COUNTY: LEA, NM TEST NUMBER: TWO TEST DATE: JUN. 9, 1996 FORMATION: DEVONIAN TEST TYPE: CONVENTIONAL TEST INTERVAL: 12,155 - 12,269 SWS S.O. NUMBER: 139655 REPORT PREPARED BY: HARVIN L. BROUGHTON

	SUMMARY	OF RESU	LTS		
K = 56.2	md		BHT =	= 185	degf
SKIN = 381		INITIAL HYD	ROSTATI	C 6146	•
ADIUS OF INV = 1510	ft	IFP	(15 mir	ı) 655 - 751	
Pi= 4484	psia	ISI	(45mir) 4463	
HICKNESS (h) = 10	ft	FFP	(180 mir) 762 - 110)7
RESERVOIR Homoge	neous	FSI	(300 mir	ı) 4479	
BOUNDRY Infinite		FINAL HYD	ROSTATI	C 6066	
WELL Storage & Skin		CUSHION	1500' FR	ESH WATE	R
SAMPLE CHAMBER, P	RESSURE = 280	GOR =	40	GLR =	16
VOLUME	FLUID	ТҮРЕ	PRO	PERTIES	_
0.244 cu ft	GAS				
900 cc	OIL		41.	7 API@600	degf
1300 cc	MUD	.177@	60, 45,00	0 ppm	

PIPE RECOVERY

VOLUME	FLUID TYPE	PROPERTIES	
270 ft	GAS		
475 ft	OIL	41.7 API@60degf	
1071 ft	WATER CUSHION		
1166	OIL & GAS CUT MUD	.177@60, 45,000 ppm	

COMMENTS: The data from DST #2 best fit the model of a well in a infinite, homogeneous reservoir with fair permeability and high skin at the time and conditions of the test. Some of the high skin could be due to partial penetration of the productive interval. The dip in the late time on the derrivative could be indicative of a two porosity system, possibly fractures, but the limited data made it unable to be correctly modeled. Assuming an area of 80 acres, Pi of 4484, h= 10 ft., and mathematically making SKIN = 0, the AOF calculated to be 5173 BOPD.