Consulting Petroleum Geologist

6851 South Holly Circle Suite 290

Englewood, Colorado 80112

(303) 694-1180

Drill-Stem-Test Pressure Analysis Report (Liquid Recovery)

Drill-Stem-Test Pressure	Analysis Report (Enquire	FILE NUMBER:
OCATION:	TIME OPEN: Initial: 20 mins. Final: 60 mins.	Special
T16S-R34E, SW SE Section 19	INITIAL SHUT-IN TIME:	I. D. NUMBER: L-36252
NEW MEXICO, LEA	60 minutes	DATE COMPUTED:
COMPANY	final shut in time: 120 minutes	1/8/82
Arco Oil & Gas Company	TEST NUMBER:	DATE TESTED:
LEASE AND WELL NUMBER:	5	12/29/81
State 19 #1 FORMATION TESTED.	INTERVAL TESTED:	KB 4153
Canvon	11433-11490	

Ran 1500 ft. of water cushion.

RECOVERY

2530 ft. total fluid: 1500 ft. of oil and gas-cut water cushion, 731 ft. of formation fluid, 155 ft. of oil, 144 ft. of gas-cut mud.

Gas to surface at beginning of final flow period; maximum flow rate: 24.3 MCFPD.

HOLE, TOOL AND RECOVERY DATA

	H	HOLE, TOOL AND	RECOVERT	THUD PERCENTAGE	Q 1
5.05.5.0.CIYY	0.0149	FEET OF MUD	144.	%	0.1
DRILL-PIPE CAPACITY (Berrels per feet)	0.0142	FEET OF WATER		WATER PERCENTAGE	
DRILL-COLLAR CAPACITY (Borrels per feet)	0.0049	FEET OF OTHER	731.	OTHER PERCENTAGE	83.1
DRILL COLLAR FOOTAGE	640	FEET OF OIL		OIL PERCENTAGE	8.8
HOLE DIAMETER	7.875		155.	FORMATION RECOVERY PERCENTAGE %	
PIPE FOOTAGE EQUIVALENT		FEET OF CUSHION	1000.	AVERAGE PRODUCTION RATE	156.1
TO ANNULUS (Feet)	5.7	TOTAL RECOVERY	1030.(net)	(Borrels per day)	100.1
(Feet)		CAPACITY OF ANNULUS	3.4	BHT = 196 °F.	
(Pounds per gation)	9.6	GROSS RECOVERY VOLUME	8.67	RECOVERY LESS THAN ANNULAR	VOLUME, (X)
EFFECTIVE FLOWING TIME	80.	(Borrels)			

GAUGE SUMMARY

Calculated results based on McKinley System Analysis:

RECORDER NUMBER	DEPTH:	DATUM:
21714	11490'	-7337'

KEY POINT SUMMARY			SUMMARY OF RESULTS EFFECTIVE TRANSMISSIBILITY, kh/s: md ft per cp
TIAL FLOWING PRESSURE	peig		13.3 INDICATED AVERAGE PERMEABILITY, k/a: md/cp
1000.	Perg		0.66 (for 20' effect. \$\phi\$) PRODUCTIVITY INDEX: Berrels per day per pai
939.		EXTRAPOLATION SUMMARY	0.033
econd Flow TIAL FLOWING PRESSURE:	PSIS INIT	1.33	DAMAGE RATIO: 0.53
1000. AL FLOWING PRESSURE:	POIS INUI	ABER OF POINTS USED FOR INITIAL CURVE-FIT:	FLOWING PRESSURE COMPARISON: \$ 104.6
1136.	SLO	PE OF INITIAL BUILD-UP CURVE: psi/cycle	
	nain INI	TIAL EXTRAPOLATED PRESSURE: Paig	INITIAL POTENTIOMETRIC SURFACE: 1001
S357.		5800. (Questionable)	6177
0001.	FI	NAL (1 - 0)/0 CALCULATED FROM MEASURED DATA:	
	NU	MBER OF POINTS USED FOR FINAL CURVE-FIT:	
	SL.	DPE OF FINAL BUILD-UP CURVE: pai/cycl	-
DO COURT	paig Fi	NAL EXTRAPOLATED PRESSURE: PAIG	FINAL POTENTIOMETRIC SURFACE: foot
NAL SHUT-IN PRESSURE:		Indeterminate - Insufficien	t Shut-in Time INITIAL MUD PRESSURE COMPARISON: 5
NITIAL HYDROSTATIC MUD PRESSURE	paig		99.8
5746.	paig		FINAL MUD PRESSURE COMPARISON: \$
5739	1_		