

Legal Location  
Sec. - Twp. - Rng.

25 - 25 - 30

Field Area

WILDCAT

County

DECATUR

State

KANSAS

Lease Name  
DAVIS

Well No.  
E-1

Test No.  
2

Tested Interval  
3924' - 3960'

Lease Owner/Company Name  
CITIES SERVICE OIL COMPANY

FLUID SAMPLE DATA				Date 9-16-76		Ticket Number 074715	
Sampler Pressure _____ P.S.I.G. at Surface				Kind of Job OPEN HOLE TEST		Halliburton District HAYS	
Recovery: Cu. Ft. Gas _____				Tester MR. GARRISON		Witness MARTY DOUBOYS	
cc. Oil _____				Drilling Contractor R & W DRILLING COMPANY PW			
cc. Water _____				EQUIPMENT & HOLE DATA			
cc. Mud _____							
Tot. Liquid cc. _____				Formation Tested Lansing "B"			
Gravity _____ ° API @ _____ ° F.		Gas/Oil Ratio _____ cu. ft./bbl.		Elevation 2841' K.B. Ft.			
RESISTIVITY _____		CHLORIDE CONTENT _____		Net Productive Interval 20' Ft.			
Recovery Water _____ @ _____ ° F. _____ ppm		Recovery Mud _____ @ _____ ° F. _____ ppm		All Depths Measured From Kelly Bushing			
Recovery Mud Filtrate _____ @ _____ ° F. _____ ppm		Mud Pit Sample _____ @ _____ ° F. _____ ppm		Total Depth 3960' Ft.			
Mud Pit Sample Filtrate _____ @ _____ ° F. _____ ppm		Mud Weight 9.8 vis 42 Sec. $\frac{sp}{F}$		Main Hole/Casing Size 7 7/8"			
Cushion TYPE AMOUNT		Depth Back Pres. Valve		Surface Choke 1/4"		Bottom Choke 3/4"	
Recovered 1245 Feet of Muddy oil.				Med. From Tester Valve			
Recovered 60 Feet of Muddy oily water.							
Recovered _____ Feet of _____							
Recovered _____ Feet of _____							
Recovered _____ Feet of _____							
Remarks Grind out on 1245' of fluid was 75% oil and 25% water and mud.							
SEE PRODUCTION TEST DATA SHEET.....							
TEMPERATURE		Gauge No. 536		Gauge No. 392		Gauge No. _____	
Depth: 3911 Ft.		Depth: 3956 Ft.		Depth: _____ Ft.		TIME	
12 Hour Clock		12 Hour Clock		Hour Clock		Tool _____ A.M.	
Est. ° F. Blanked Off No		Blanked Off Yes		Blanked Off		Opened 14:05 P.M.	
3954'		Actual 127° F.		Pressures		Opened _____ A.M.	
Field		Office		Field		Office	
Initial Hydrostatic		1977		1991 1998		Reported _____ Computed _____	
First Period	Flow Initial	58		90.4 99		Minutes _____ Minutes _____	
	Flow Final	233		262.8 260		15 15	
	Closed in	1304		1325 1320		30 30	
Second Period	Flow Initial	271		279.2 283		_____ _____	
	Flow Final	508		541.7 530		30 30	
	Closed in	1309		1316.8 1326		60 60	
Third Period	Flow Initial	_____		_____		_____ _____	
	Flow Final	_____		_____		_____ _____	
	Closed in	_____		_____		_____ _____	
Final Hydrostatic		1961		1974.9 1977		_____ _____	

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Gauge No. 536		Depth 3911'		Clock No. 11657		12 hour		Ticket No. 074715	
First Flow Period		First Closed In Pressure		Second Flow Period		Second Closed In Pressure		Third Flow Period	
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.
Log $\frac{t + \theta}{\theta}$		Log $\frac{t + \theta}{\theta}$		Log $\frac{t + \theta}{\theta}$		Log $\frac{t + \theta}{\theta}$		Log $\frac{t + \theta}{\theta}$	
0	.000	.000	233	.000	271	.000	508		
1	.0228	.0134	1085	.0348	298	.0272	1166		
2	.0456	.0268	1180	.0697	347	.0544	1206		
3	.0684	.0402	1211	.1045	391	.0816	1231		
4	.0912	.0536	1231	.1393	433	.1088	1248		
5	.1140	.0670	1245	.1742	473	.1360	1260		
6		.0804	1256	.2090	508	.1632	1270		
7		.0938	1266			.1904	1277		
8		.1072	1273			.2176	1284		
9		.1206	1280			.2448	1290		
10		.1340	1285			.2720	1293		
11		.1474	1290			.2992	1298		
12		.1608	1294			.3264	1302		
13		.1742	1298			.3536	1304		
14		.1876	1301			.3808	1307		
15		.2010	1304			.4080	1309		

Gauge No. 392		Depth 3956'		Clock No. 11647		12 hour	
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.
Log $\frac{t + \theta}{\theta}$		Log $\frac{t + \theta}{\theta}$		Log $\frac{t + \theta}{\theta}$		Log $\frac{t + \theta}{\theta}$	
0	.000	.000	260	.000	283	.000	530
1	.0206	.0135	1075	.0340	323	.0269	1185
2	.0412	.0269	1191	.0680	372	.0537	1226
3	.0618	.0404	1227	.1020	418	.0806	1249
4	.0824	.0539	1248	.1360	459	.1075	1265
5	.1030	.0674	1263	.1700	496	.1344	1278
6		.0808	1274	.2040	530	.1612	1287
7		.0943	1283			.1881	1295
8		.1078	1291			.2150	1301
9		.1212	1296			.2418	1306
10		.1347	1302			.2687	1311
11		.1483	1307			.2956	1315
12		.1616	1311			.3224	1318
13		.1751	1314			.3493	1320
14		.1886	1318			.3762	1323
15		.2020	1320			.4030	1326

Reading Interval	3	2	5	4	Minutes

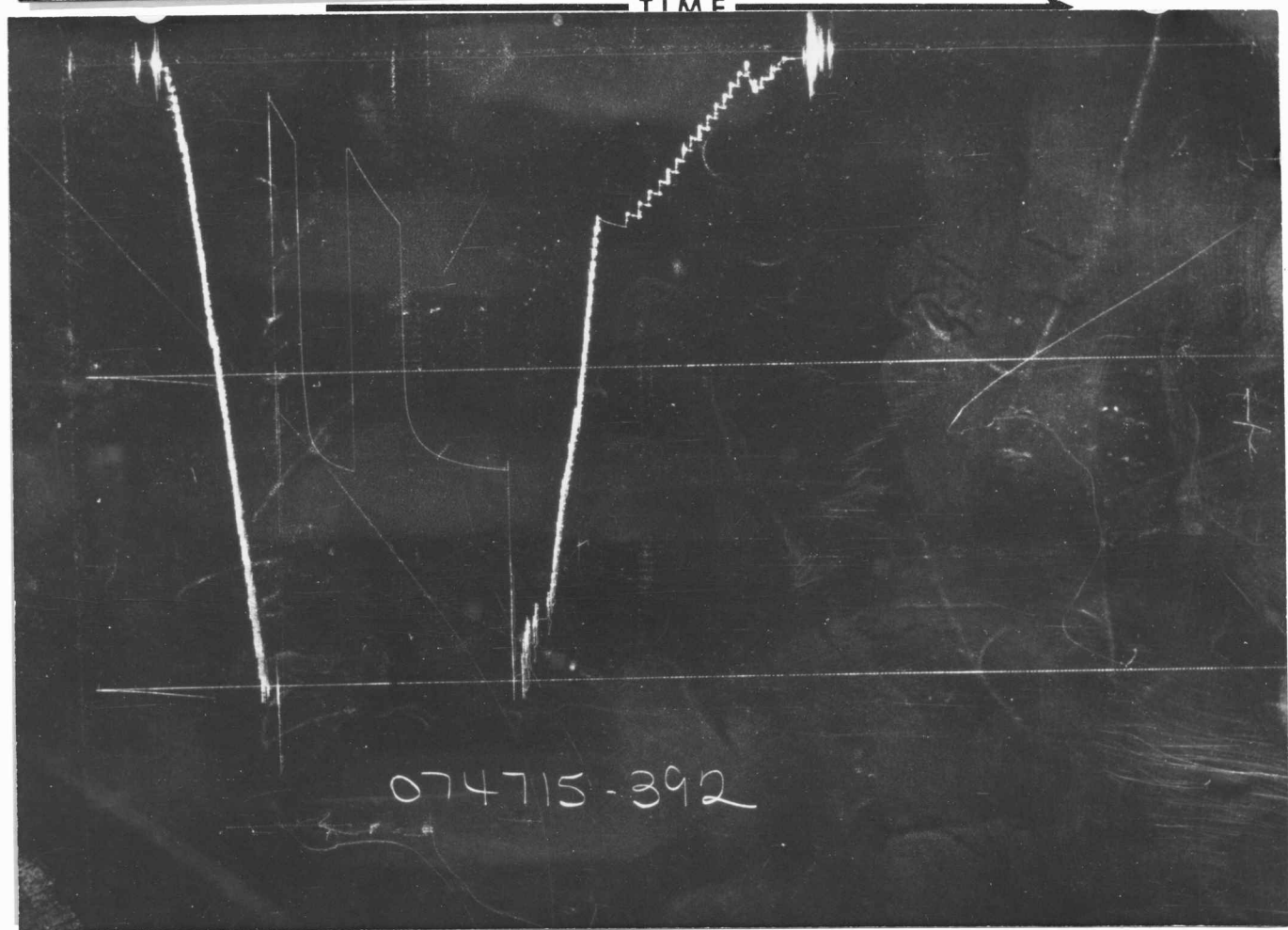
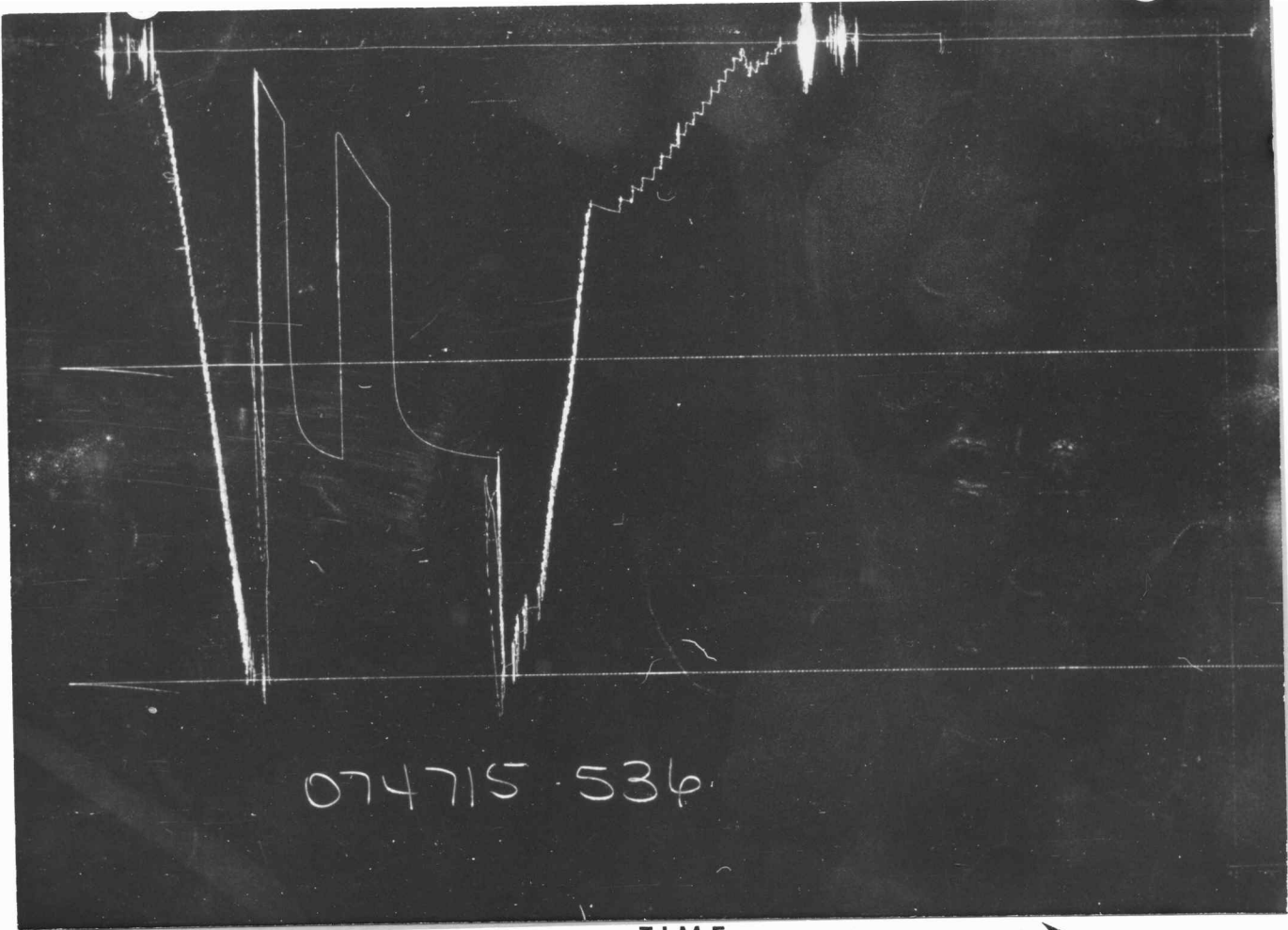
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REMARKS:



	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing .....				
Reversing Sub .....	6"	3"	1.00'	3840'
Water Cushion Valve .....				
Drill Pipe .....	4.5"	3.826"	3896'	
Drill Collars .....				
Handling Sub & Choke Assembly .....				
Dual CIP Valve .....	5.0"	.87"	6.05'	3900'
Dual CIP Sampler .....				
Hydro-Spring Tester .....	5.00"	.75"	5.00'	3906'
Multiple CIP Sampler .....				
Extension Joint .....				
AP Running Case .....	5.0"	3.75"	4.00'	3911'
Hydraulic Jar .....				
VR Safety Joint .....	5.0"	1"	2.85'	
Pressure Equalizing Crossover .....				
Packer Assembly .....	6.75"	1.53"	5.85'	3918'
Distributor .....				
Packer Assembly .....	6.75"	1.53"	5.85'	3924'
Flush Joint Anchor .....	5.0"	3.84"	28'	
Pressure Equalizing Tube .....				
Blanked-Off B.T. Running Case .....				
Drill Collars .....				
Anchor Pipe Safety Joint .....				
Packer Assembly .....				
Distributor .....				
Packer Assembly .....				
Anchor Pipe Safety Joint .....				
Side Wall Anchor .....				
Drill Collars .....				
Flush Joint Anchor Temp. Case .....	5.0"	3.75"	1.50'	
Blanked-Off B.T. Running Case .....	5.0"	2.75"	4.00'	3956'
Total Depth .....				3960'

↑ PRESSURE ↓



Each Horizontal Line Equal to 1000 p.s.i.

# TEMPERATURE RECORDER CHART



10° each circle

- $OF_3$  = Theoretical Open Flow Potential with/Damage Removed Max. . . . . MCF/D
- $OF_4$  = Theoretical Open Flow Potential with/Damage Removed Min. . . . . MCF/D
- $P_s$  = Extrapolated Static Pressure . . . . . Psig.
- $P_f$  = Final Flow Pressure . . . . . Psig.
- $P_{or}$  = Potentiometric Surface (Fresh Water \*) . . . . . Feet
- $Q$  = Average Adjusted Production Rate During Test . . . . . bbls/day
- $Q_1$  = Theoretical Production w/Damage Removed . . . . . bbls/day
- $Q_g$  = Measured Gas Production Rate . . . . . MCF/D
- $R$  = Corrected Recovery . . . . . bbls
- $r_w$  = Radius of Well Bore . . . . . Feet
- $t$  = Flow Time . . . . . Minutes
- $t_o$  = Total Flow Time . . . . . Minutes
- $T$  = Temperature Rankine . . . . . °R
- $Z$  = Compressibility Factor . . . . . —
- $\mu$  = Viscosity Gas or Liquid . . . . . CP
- Log = Common Log

\* Potentiometric Surface Reference to Rotary Table When Elevation Not Given,  
Fresh Water Corrected to 100° F.