

FLUID SAMPLE DATA				Date	Ticket Number
Sampler Pressure	75	P.S.I.G. at Surface		5-9-81	116096
Recovery: Cu. Ft. Gas	.48 cu. ft.			Kind of D.S.T.	OPEN HOLE
cc. Oil	1100			Halliburton Location	HOBBS
cc. Water				Tester	LINDSEY
cc. Mud				Witness	R. BECKER
Tot. Liquid cc.				Drilling Contract	WARTON # 2 sm
Gravity		° API @ °F.		EQUIPMENT & HOLE DATA	
Gas/Oil Ratio	69.3	cu. ft./bbl.		Formation Tested	Upper Ranger Lake
		RESISTIVITY	CHLORIDE CONTENT	Elevation	4203' ground level Ft.
Recovery Water		@	°F.	Net Productive Interval	8' Ft.
Recovery Mud		@	°F.	All Depths Measured From	Rotary kelly bushing 16' Ft.
Recovery Mud Filtrate		@	°F.	Total Depth	10238' Ft.
Mud Pit Sample		@	°F.	Main Hole/Casing Size	7 7/8"
Mud Pit Sample Filtrate		@	°F.	Drill Collar Length	701' I.D. 2.25"
Mud Weight	9.5	vis	39 sec.	Drill Pipe Length	9475' I.D. 3.826"
				Packer Depth(s)	10213-10220' Ft.
				Depth Tester Valve	10178' Ft.
Cushion		TYPE	AMOUNT	Depth Back Pres. Valve	Surface Choke
				Ft.	1" adj. Bottom Choke .75"
Recovered	Approximately 3600	Feet of gas cut mud			
Recovered		Feet of			
Recovered		Feet of			
Recovered		Feet of			
Recovered		Feet of			
Remarks	SEE PRODUCTION TEST DATA SHEET				
TEMPERATURE					
	Gauge No. 7653	Gauge No. 7652	Gauge No.	TIME (00:00-24:00 hrs.)	
	Depth: 10197' Ft.	Depth: 10234' Ft.	Depth:		
Est. 190 °F.	24 Hour Clock	24 Hour Clock	Hour Clock	Tool	
	Blanked Off NO	Blanked Off YES	Blanked Off	Opened 1826	
Actual °F.	Pressures		Pressures		Opened Bypass 2256
	Field	Office	Field	Office	Reported
Initial Hydrostatic	5024	5126.3	5075	5119.1	Minutes
First Period Flow	Initial	88	67	105.3	Minutes
	Final	176	177	173.8	30 *
Second Period Flow	Initial	132	133	155.4	60 *
	Final	176	177	215.5	60 *
Third Period Flow	Initial	2030	1991	2053.5	120 *
	Final	*See special reading sheet			
Final Hydrostatic	5024	5131.1	5075	5127.3	Minutes

Legal Location Sec. - Twp. - Rng. T 12 R 34D S 31
 Lease Name
 Well No. Y-1
 Test No. 3
 Field Area RANGER LAKE
 County LEA
 State NEW MEXICO
 Tested Interval 10220 - 10238'
 Lease Owner/Company Name HARPER OIL COMPANY

Casing perms. _____ Bottom choke _____ Surf. temp _____ °F Ticket No. 116096
 Gas gravity _____ Oil gravity _____ GOR _____
 Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F

INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED _____

Date Time	a.m. p.m.	Choke Size	Surface Pressure psi	Gas Rate MCF	Liquid Rate BPD	Remarks
0900						On location
1245						Picked up tools
1400						Ran in hole
1826						Opened tool to bubble hose-weak blow
1836						Weak blow
1846						Fair blow
1850						Good blow
1856						Closed tool with a good blow
1956						Opened tool to bubble hose with good blow
2000		1/4"	2			Pressure increased
2006		"	3			"
2016		"	2.5			Pressure decreased
2026		"	2.5			Pressure stable
2036		"	2.5			Pressure stable
2046		"	2.5			Pressure stable
2056		"	2.5			Closed tool-pressure stable for CIP period
2256						Opened bypass-pulled 60 stands.
0200	5-10-81					Reversed out approximately 3600' gas cut mud
0700						Out of hole.

HARPER OIL COMPANY
 Lease Owner/Company Name

116096
 Ticket Number

B.T. 7653

B.T. 7652

B.T. _____

Depth 10197'

Depth 10234'

Depth _____

24 Hour clock

24 Hour clock

Time Minutes	Log $\frac{t - 0}{t}$	PSIG Temp. Corr.	Time Minutes	Log $\frac{t - 0}{t}$	PSIG Temp. Corr.	Time	Log $\frac{t - 0}{t}$	PSIG Temp. Corr.
FIRST FLOW PERIOD			FIRST FLOW PERIOD					
0		89.3	0		105.3			
5		102.6	5		106.0			
10		124.6	10		123.5			
15		138.8	15		138.8			
20		149.8	20		149.7			
25		161.6	25		161.9			
30.5		174.8	30.0		173.8			
FIRST CIP PERIOD			FIRST CIP PERIOD					
0		174.8	0		173.8			
5		466.4	5		352.8			
10		637.5	10		525.5			
15		804.4	15		682.0			
20		953.3	20		841.5			
25		1118.6	25		995.8			
30		1273.6	30		1149.2			
35		1415.5	35		1297.1			
40		1559.6	40		1441.3			
45		1683.8	45		1580.1			
50		1783.2	50		1702.4			
55		1856.6	55		1803.5			
57.9		1885.8	60.7		1883.0			
SECOND FLOW PERIOD			SECOND FLOW PERIOD					
0		147.6	0		155.4			
10		203.3	10		201.6			
20		197.8	20		200.9			
30		205.5	30		204.4			
40		207.9	40		208.0			
50		210.7	50		212.0			
59.8		216.2	58.5		215.5			
See page 2								

Remarks: _____



HALLIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES
MIDLAND DIVISION
HOBBS, NEW MEXICO 88240

116096

LABORATORY WATER ANALYSIS

No. W81-380

To Harper Oil Company

Date 5-10-81

904 Hightower Building

Oklahoma City, Oklahoma

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Submitted by _____ Date Rec. 5-10-81

Well No. Warfield #1-Y+ Depth 10,238' Formation Upper Ranger Lake

County Lea Field Ranger Lake Source DST #3

	<u>Tool Top</u>	<u>Middle of Fluid</u>	<u>Top of Fluid</u>
Resistivity	<u>0.103 @ 74°F.</u>	<u>0.124 @ 74°F.</u>	<u>0.123 @ 74°F.</u>

Specific Gravity _____

pH _____

Calcium (Ca) _____ *MPL

Magnesium (Mg) _____

Chlorides (Cl) 46,500 37,500 38,000

Sulfates (SO₄) _____

Bicarbonates (HCO₃) _____

Soluble Iron (Fe) _____

Pit Sample - Res. @ 74°F. - 0.125 Chlorides, mpl - 37,000

Sampler - 100% Oil - API Gr. @ 60°F. - 42.0

Remarks:

*Milligrams per liter

Respectfully submitted,

Analyst: Brewer - Jackson

cc:

HALLIBURTON COMPANY
By W. J. Brewer
CHEMIST

NOTICE

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	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing	4.50"	3.826"	9475'	
Drill Collars				10087'
Reversing Sub	5.75"	2.25"	1'	
Water Cushion Valve				
Drill Pipe	6.25"	2.25"	701'	
Drill Collars				
Handling Sub & Choke Assembly				
Dual CIP Valve			1'	10177'
Dual CIP Sampler <i>X over</i>	5.75"	2.25"	5'	10178'
Hydro-Spring Tester	5"	.75"		
Multiple CIP Sampler	5"	.75"	4'	
Extension Joint	5"	.87"	10'	
AP Running Case	5"	3.25"	5'	10197'
Hydraulic Jar	5"	1.75"	5'	
VR Safety Joint	5"	1"	3'	
Pressure Equalizing Crossover				
Packer Assembly	7"	1.63"	5'	10213'
Distributor	5"	1.68"	2'	
Packer Assembly	7"	1.63"	5'	10220'
Flush Joint Anchor				
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	5.75"	3.50"	12'	
Blanked-Off B.T. Running Case	5.75"	3.50"	4'	10234'
Total Depth				10238'