

FLUID SAMPLE DATA		Date	6-20-80	Ticket Number	618356
Sampler Pressure	270 P.S.I.G. at Surface	Kind of D.S.T.	OPEN HOLE TEST	Halliburton Location	MIDLAND
Recovery: Cu. Ft. Gas		Tester	WAYNE FLETCHER	Witness	S. HANSON
cc. Oil					M. ELMS
cc. Water	2000 formation	Drilling Contractor	WARTON #4		TJH S
cc. Mud		EQUIPMENT & HOLE DATA			
Tot. Liquid cc.		Formation Tested	Bough "D"		
Gravity	° API @ °F.	Elevation	4220'	Ft.	
Gas/Oil Ratio	cu. ft./bbl.	Net Productive Interval	39'	Ft.	
	RESISTIVITY	CHLORIDE CONTENT			
Recovery Water	@ °F. ppm	All Depths Measured From	Kelly Bushing		
Recovery Mud	@ °F. ppm	Total Depth	10149'	Ft.	
Recovery Mud Filtrate	@ °F. ppm	Main Hole/Casing Size	7 7/8"		
Mud Pit Sample	@ °F. ppm	Drill Collar Length	614' ? I.D.	2.50" ?	
Mud Pit Sample Filtrate	@ °F. ppm	Drill Pipe Length	9649' ? I.D.	3.826"	
Mud Weight	9.2 vis 39 sec.	Packer Depth(s)	10104' - 10110' Ft.		
		Depth Tester Valve	10066' Ft.		

TYPE	AMOUNT	Depth Back Ft.	Surface Choke	Bottom Choke
Cushion			1" Adj.	.75"
Recovered	5074 Feet of	est water with trace of mud.		
Recovered	Feet of			
Recovered	Feet of			
Recovered	Feet of			
Recovered	Feet of			

Remarks SEE PRODUCTION TEST DATA SHEET . . .

ALL READINGS ON B.T. #1496 MAYBE QUESTIONABLE . . .

Q - Questionable . . .

TEMPERATURE	Gauge No. 1496		Gauge No. 1516		Gauge No.		TIME (00:00-24:00 hrs.)
	Depth: 10086 Ft.		Depth: 10145 Ft.		Depth:	Ft.	
Est. °F.	24 Hour Clock		24 Hour Clock		Hour Clock		Tool Opened 0620
	Blanked Off NO		Blanked Off YES		Blanked Off		Opened Eypass 1253
Actual 171 °F.	Pressures		Pressures		Pressures		Reported Minutes
	Field	Office	Field	Office	Field	Office	Computed Minutes
Initial Hydrostatic	5367	5376.3-0	5256.7	5261.0			
First Period Flow	Initial	221	159.2	219.8	263.7		
	Final	1106	1106.4	1099.0	1134.0		
	Closed in	3542	3544.4	3480.0	3513.2		30 30
Second Period Flow	Initial	1195	1186.2	1186.9	1193.4		
	Final	2346	2326.7	2287.0	2326.7		
	Closed in	3542	3559.9	3480.0	3519.9		63 61
Third Period Flow	Initial						
	Final						
Final Hydrostatic	5323	5354.1	5256.7	5267.7			60 62
							240 240

Equal Location 30 - 12S - 34E

Lease Name SEAY

Well No. 1

Test No. 3

Tested Interval 10110' - 10149'

County LEA

State NEW MEXICO

Lease Owner/Company Name HARPER OIL COMPANY

RECEIVED

SEP 5 1990

OLYMPIAN POWER CO.

Casing perms. _____ Bottom choke _____ Surf. temp _____ °F Ticket No. 618356
 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
0100						Picked up tool.
0230						Started tools in hole.
0600						On bottom.
0620		Bubble Hose				Opened tool with a weak blow.
0625		"	1			Blow increasing.
0630		"	1 1/2			"
0635		"	2			"
0640		"	2 1/2			"
0645		"	3			"
0650		"	3 1/2			" Closed tool.
0753		"				Opened tool with a weak blow.
0803		"	1/2			Blow increasing.
0813		"	1			"
0823		"	1 1/2			"
0833		"	"			No increase.
0843		"	2			"
0853		"	"			" Closed tool.
1253						Pulled loose.
1500						Reversed out.
1542						Pulled out of hole.
1829						Out of hole.

Gauge No. 1496		Depth 10086		Clock No. 6115		24 hour		Ticket No. 618356			
First Flow Period		First Closed In Pressure		Second Flow Period		Second Closed In Pressure		Third Flow Period		Third Closed In Pressure	
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.	Time Defl. .000"	PSIG Temp. Corr.
0 .0000	159.2	.0000	1106.4	.0000	1186.2	.0000	2326.7	.0000	2326.7		
1 .0165	356.1	.0167*	3306.6	.0418*	1314.8	.0531	3468.8				
2 .0330	526.5	.0301	3404.4	.0766	1552.1	.1061	3504.4				
3 .0495	688.0	.0435	3451.1	.1115	1787.1	.1592	3519.9				
4 .0660	842.9	.0568	3475.5	.1463	1984.4	.2122	3528.8				
5 .0825	980.0	.0702	3493.3	.1811	2165.5	.2753	3533.3				
6 .0990	1106.4	.0836	3504.4	.2160	2326.7	.3184	3539.9				
7		.0969	3515.5			.3714	3542.2				
8		.1103	3522.2			.4245	3546.6				
9		.1237	3526.6			.4775	3548.8				
10		.1371	3531.1			.5306	3551.1				
11		.1504	3535.5			.5837	3553.3				
12		.1638	3537.7			.6367	3555.5				
13		.1772	3542.2			.6898	3555.5				
14		.1905	3542.2			.7428	3559.9				
15		.2040	3544.4			.7960	3559.9				

Gauge No. 1516		Depth 10145		Clock No. 16511		24 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.
0 .0000	263.7	.0000	1134.0	.0000	1193.4	.0000	2326.7
1 .0170	417.5	.0168*	3294.2	.0401*	1415.3	.0535	3444.6
2 .0340	584.6	.0302	3387.1	.0734	1624.1	.1079	3475.6
3 .0510	731.8	.0437	3426.9	.1068	1817.5	.1604	3488.9
4 .0680	876.9	.0571	3453.5	.1402	1999.9	.2138	3497.7
5 .0850	1006.5	.0706	3466.8	.1736	2165.5	.2673	3504.4
6 .1020	1134.0	.0840	3477.8	.2070	2326.7	.3208	3508.8
7		.0974	3486.7			.3742	3511.0
8		.1109	3493.3			.4277	3513.2
9		.1243	3497.7			.4811	3513.2
10		.1378	3502.2			.5346	3515.4
11		.1512	3506.6			.5881	3517.7
12		.1646	3508.8			.6415	3517.7
13		.1781	3511.0			.6950	3519.9
14		.1915	3513.2			.7484	3519.9
15		.2050	3513.2			.8020	3519.9
Reading Interval	5		4	10		16	

REMARKS: * - first interval is equal to 5 minutes, ** - 12 minutes.

HALLIBURTON SERVICES
MIDLAND DIVISION
HOBBS, NEW MEXICO 88240
LABORATORY WATER ANALYSIS

TICKET NO. 618356
No. WSG-673

To Harper Oil Company

Date 6-23-80

2004 Wilco Building

Midland, Texas

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Submitted by _____ Date Rec. 6-21-80

Well No. Seay State #1 Depth 10,149' Formation Bough "D"

County Lea Field W. Tatum Source DST #3

	Sampler	Tool Top	Top of Fluid
Resistivity	0.101 @ 74°F.	0.086 @ 74°F.	0.090 @ 74°F.
Specific Gravity	1.066		
pH	6.5		
Calcium (Ca)	5,500		*MPL
Magnesium (Mg)	900		
Chlorides (Cl)	55,500	76,000	66,000
Sulfates (SO ₄)	2,400		
Bicarbonates (HCO ₃)	135		
Soluble Iron (Fe)	40		
Fluid Change - Res. @ 74°F. -	0.098	Chlorides, mpl -	57,000
Pit Sample - Res. @ 74°F. -	0.074	Chlorides, mpl -	86,000

Remarks:

*Milligrams per liter

Respectfully submitted,

Analyst: Brewer

HALLIBURTON COMPANY

cc:

By W. L. Brewer
CHEMIST

NOTICE

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	C. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Drill Collars				
Reversing Sub	5.75"	2.50"	1'	
Water Cushion Valve				
Drill Pipe	4 1/2"	3.826"	9649' ?	
Drill Collars	6 1/8"	2.50"	614' ?	
Handling Sub & Choke Assembly				
Dual CIP Valve				
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	4'	10066'
Multiple CIP Sampler	5"	.75"	5'	
Extension Joint	5"	.87"	10'	
AP Running Case	5"	3.75"	5'	10086'
Hydraulic Jar	5"	1.75"	5'	
VR Safety Joint	5"	1"	3'	
Pressure Equalizing Crossover				
Packer Assembly	7"	1.53"	6'	10104'
Distributor	5"	1.68"	2'	
Packer Assembly	7"	1.53"	6'	10110'
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"	2.87"	32'	
Blanked-Off B.T. Running Case	5.75"	2.50"	5'	10145'
Total Depth				10149'