

FLUID SAMPLE DATA				Date 9-4-78		Ticket Number 501479	
Sampler Pressure _____ P.S.I.G. at Surface Recovery: Cu. Ft. Gas _____ cc. Oil _____ cc. Water _____ cc. Mud _____ Tot. Liquid cc. _____ Gravity _____ ° API @ _____ °F. Gas/Oil Ratio _____ cu. ft./bbl. RESISTIVITY CHLORIDE CONTENT Recovery Water _____ @ _____ °F. _____ ppm Recovery Mud _____ @ _____ °F. _____ ppm Recovery Mud Filtrate _____ @ _____ °F. _____ ppm Mud Pit Sample _____ @ _____ °F. _____ ppm Mud Pit Sample Filtrate _____ @ _____ °F. _____ ppm				Kind of Job OPEN HOLE Halliburton District ARTESIA Tester RITTER Witness AKIN Drilling Contractor WEK # 3 NM S			
EQUIPMENT & HOLE DATA							
Formation Tested San Andres				Elevation 4220' GL Ft.			
Net Productive Interval -				Ft.			
All Depths Measured From Kelly Bushing - 10'				Total Depth 3844' Ft.			
Main Hole/Casing Size 7 7/8"				Drill Collar Length 434' I.D. 2.25"			
Drill Pipe Length 3286' I.D.				3.340"			
Packer Depth(s) 3735' - 3741'				Ft.			
Depth Tester Valve 3718'				Ft.			
Mud Weight 10		vis 37		sec			
Cushion TYPE AMOUNT		Depth Back Pres. Valve		Surface Choke		Bottom Choke	
NONE		NONE		1" ADJ.		.75"	
Recovered 2170'		Feet of sulphur water					
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Remarks SEE PRODUCTION TEST DATA SHEET...							
CTE = READ AT THE END OF 141.1 MINUTES WHEN CHART TIME EXPIRED...							
TEMPERATURE		Gauge No. 512		Gauge No. 113		Gauge No.	
Depth: 3723' Ft.		Depth: 3840' 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 8:00 P.M.	
Actual 100°F.		Pressures		Pressures		Opened A.M.	
		Pressures		Pressures		Bypass 3:00 P.M.	
		Field Office		Field Office		Reported Computed	
		Minutes Minutes					
Initial Hydrostatic		1896 1921		1983 1971			
Flow Initial		27 36		106 97			
Flow Final		318 327		386 390		30 29	
Flow Closed in		1054 1077		1137 1140		90 90	
Flow Initial		318 337		386 399			
Flow Final		752 749		795 809		120 120	
Flow Closed in		1054 1068		1137 1129CTE		180 181	
Flow Initial							
Flow Final							
Flow Closed in							
Final Hydrostatic		1896 1921		CHART TIME EXPIRED...			

 Legal Location
 Sec. - Twp. - Rng.

5 - 8 - 31

 Field Area
 Mea. From Tester Valve

County

CHAVES

State NEW MEXICO

INGRAM FEDERAL

8

Well No. 1

3741' - 3844' - 103'

SUNDANCE OIL COMPANY

Lease Owner/Company Name

Casing perms. _____ Bottom choke _____ Surf. temp _____ °F Ticket No. 501479
 Gas gravity _____ Oil gravity _____ GOR _____
 Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F
 INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED 1" ADJ.

Date Time	Choke Size	Surface Pressure psi	Gas Rate MCF	Liquid Rate BPD	Remarks
9-4-78 8:00 a.m. p.m.					
0200					Unloaded and picked up the tools.
0800					Tool opened with a weak blow.
0805		1/2#			Had a strong blow.
0810		1/2#			
0815		1/2#			
0820		3/4#			
0825		3/4			
0830		3/4#			Closed tool.
1000					Opened tool with a weak blow.
1005					
1010					
1015		1/4#			Had a fair blow.
1020		1/4#			
1025		1/4#			
1030		1/4#			
1035		1/4#			No gas
1040					
1045					
1050					
1055					
1100	3/8"				Choke.
1105					Closed choke..
1110					
1115					
1120					
1130		1/4#			

Casing perms. _____ Bottom choke _____ Surf. temp _____ °F Ticket No. 501479
Gas gravity _____ Oil gravity _____ GOR _____
Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F

INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED.

[illegible]

Gauge No. 512				Depth 3723'				Clock No. 11888				12 hour				Ticket No. 501479							
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.	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	.000	36		.000		.000	337	.000		.000		.000	749										
1	.0272	93*		.0334		.1338	437	.0335					1051										
2	.0611	164		.0669		.2677	518	.0669					1056										
3	.0951	230		.1003		.4015	588	.1004					1059										
4	.1291	266		.1338		.5353	650	.1338					1060										
5	.1630	296		.1672		.6692	702	.1673					1063										
6	.1970	327		.2007		.8030	749	.2007					1063										
7				.2341				.2342					1064										
8				.2676				.2676					1064										
9				.3010				.3011					1066										
10				.3344				.3345					1066										
11				.3880				.5085					1066										
12				.4415				.6824					1067										
13				.4950				.8564					1067										
14				.5485				1.0304					1067										
15				.6020				1.2110					1068										

Gauge No. 113				Depth 3840'				Clock No. 7282				hour 12			
First Flow Period				First Closed In Pressure				Second Flow Period				Second 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.	Time Defl. .000"	PSIG Temp. Corr.		
0	.000	97		.000		.000	399	.000		.000		.000	809		
1	.0279	150*		.0336		.1347	497	.0338					1115		
2	.0627	225		.0671		.2693	580	.0675					1120		
3	.0975	291		.1007		.4040	649	.1013					1123		
4	.1323	328		.1342		.5387	712	.1351					1124		
5	.1672	359		.1678		.6733	763	.1688					1124		
6	.2020	390		.2013		.8080	809	.2026					1125		
7				.2349				.2364					1125		
8				.2684				.2701					1123		
9				.3020				.3039					1123		
10				.3356				.3377					1125		
11				.3892				.5132					1127		
12				.4430				.6888					1127		
13				.4966				.8644					1127		
14				.5503				(.9530)					1129(CTE)		
15				.6040				CHART					CHART		

Gauge No. 5				Depth 20'				Clock No. 7282				hour 12			
First Flow Period				First Closed In Pressure				Second Flow Period				Second 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.	Time Defl. .000"	PSIG Temp. Corr.		
0	.000	97		.000		.000	399	.000		.000		.000	809		
1	.0279	150*		.0336		.1347	497	.0338					1115		
2	.0627	225		.0671		.2693	580	.0675					1120		
3	.0975	291		.1007		.4040	649	.1013					1123		
4	.1323	328		.1342		.5387	712	.1351					1124		
5	.1672	359		.1678		.6733	763	.1688					1124		
6	.2020	390		.2013		.8080	809	.2026					1125		
7				.2349				.2364					1125		
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9				.3020				.3039					1123		
10				.3356				.3377					1125		
11				.3892				.5132					1127		
12				.4430				.6888					1127		
13				.4966				.8644					1127		
14				.5503				(.9530)					1129(CTE)		
15				.6040				CHART					CHART		

Gauge No. 5				Depth 20'				Clock No. 7282				hour 12			
First Flow Period				First Closed In Pressure				Second Flow Period				Second 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.	Time Defl. .000"	PSIG Temp. Corr.		
0	.000	97		.000		.000	399	.000		.000		.000	809		
1	.0279	150*		.0336		.1347	497	.0338					1115		
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First Flow Period				First Closed In Pressure				Second Flow Period				Second 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.	Time Defl. .000"	PSIG Temp. Corr.		
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10				.3356				.3377					1125		
11				.3892				.5132					1127		
12				.4430</											

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing	6"	2.50"	1'	
Reversing Sub				
Water Cushion Valve				
Drill Pipe	4"	3.340"	3286'	
Drill Collars	6½"	2.25"	434'	
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	.75"	5'	3713'
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	5'	3718'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.00"	4'	3723'
Hydraulic Jar	5"	1.75"	5'	
VR Safety Joint	5"	1.00"	3'	
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1.53"	6'	3735'
Distributor				
Packer Assembly	6 3/4"	1.53"	6'	3741'
Flush Joint Anchor				
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case				
Drill Collars				
Anchor Pipe Safety Joint	5 3/4"	1.50"	4'	
Packer Assembly				
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars	6½"	2.25"	61'	
Flush Joint Anchor	5 3/4"	3.00"	31'	
Blanked-Off B.T. Running Case	5 3/4"	2.50"	4'	3840'
Total Depth				3844'