

CONE FEDERAL

Lease Name

2

Well No.

1

Test No.

4115' - 4205'

Tested Interval

SUNDANCE OIL COMPANY

Lease Owner/Company Name

Legal Location
Sec. - Twp. - Rng.

31 - 7 - 32

Field
Area

WILDCAT

County

CHAVES

State

NEW MEXICO

FLUID SAMPLE DATA				Date 12-31-77		Ticket Number 253257	
Sampler Pressure _____ P.S.I.G. at Surface				Kind of Job OPEN HOLE		Halliburton District ARTESIA	
Recovery: Cu. Ft. Gas _____				Tester HANSEN		Witness AKIN	
cc. Oil _____				Drilling Contractor W.E.K. # 1 NM S			
cc. Water _____				EQUIPMENT & HOLE DATA			
cc. Mud _____				Formation Tested San Andres			
Tot. Liquid cc. _____				Elevation 4428' Ft.			
Gravity _____ ° API @ _____ °F.				Net Productive Interval 12' Ft.			
Gas/Oil Ratio _____ cu. ft./bbl.				All Depths Measured From Kelly Bushing (10')			
RESISTIVITY _____ CHLORIDE CONTENT _____				Total Depth 4205' Ft.			
Recovery Water _____ @ _____ °F. _____ ppm				Main Hole/Casing Size 7 7/8"			
Recovery Mud _____ @ _____ °F. _____ ppm				Drill Collar Length 538' I.D. 2.25"			
Recovery Mud Filtrate _____ @ _____ °F. _____ ppm				Drill Pipe Length 3542' I.D. 3.340"			
Mud Pit Sample _____ @ _____ °F. _____ ppm				Packer Depth(s) 4109' - 4115' Ft.			
Mud Pit Sample Filtrate _____ @ _____ °F. _____ ppm				Depth Tester Valve 4095' Ft.			
Mud Weight 10 vis 40 sec				Cushion TYPE AMOUNT NONE Depth Back Pres. Valve NONE Surface Choke MANIFOLD Bottom Choke .75"			
ESTIMATED							
Recovered 2200' Feet of oil *							
Recovered 40' Feet of slightly oil and mud cut water							
Recovered _____ Feet of _____							
Recovered _____ Feet of _____							
Recovered _____ Feet of _____							
Remarks * After bypassing - company man chose to pull till we got fluid because there was no way to count volumm in the tubing. After pulling 23 double stands (1426 feet) the drill pipe unloaded the oil. Therefore there is no way to get an accurate estimate of the recovery.. SEE PRODUCTION TEST							
DATA SHEET FOR REMAINDER OF THE REMARKS...							
TEMPERATURE		Gauge No. 512		Gauge No. 113		Gauge No. _____	
Depth: 4097' Ft.		Depth: 4201' Ft.		Depth: _____ Ft.		TIME	
24 Hour Clock		24 Hour Clock		Hour Clock		Tool _____ A.M.	
Blanked Off NO		Blanked Off YES		Blanked Off		Opened 0115 P.M.	
Actual 102 °F.		Pressures		Pressures		Opened _____ A.M.	
Field		Office		Field		Bypass 0745 P.M.	
Initial Hydrostatic 2247		2207		2212		Reported _____	
Flow Initial 119		83		26		Computed _____	
Flow Final 292		286		263		Minutes _____	
Closed in 1281		1245		1235		30 30	
Second Period Flow Initial 358		379		329		60 60	
Flow Final 714		691		683		120 119	
Closed in 1281		1247		1222		180 180	
Third Period Flow Initial _____		_____		_____		_____	
Flow Final _____		_____		_____		_____	
Closed in _____		_____		_____		_____	
Final Hydrostatic 2221		2174		2186		2231	

Casing perms. _____ Bottom choke _____ Surf. temp. _____ °F Ticket No. 253257
 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
0115						Opened tool with a good blow.
0120						5 minutes into initial flow- strong blow.
0125			1#			10 minutes " " " 1# bubble hose
0130		3/8"	1/2			blow. 15 " " " "
0135			1/2			20 " " " "
0140			1/2			25 " " " "
0145			1/2			30 " " " "
0245			1/2			Closed tool.
0250			1			Tool reopened with gas to the surface.
0255			3			5 minutes into final flow.
0300			0			10 minutes.
0305			0			15 minutes.
0315			0			20 minutes.
0330			0			30 minutes.
0345			0			45 minutes.
0400			0			60 minutes.
0415			0			75 minutes.
0430			0			90 minutes.
0445			0			105 minutes.
0745						Closed tool for the second closed in pressure. Bypassed tool.
						Pulled 23 stands -1426' - well unloaded
						drill pipe - dropped bar - put on Kelly
						and circulated..

Gauge No.		512		Depth		4097'		Clock No.		16710		24 hour		Ticket No.		253257	
First Flow Period		Closed In Pressure		Second Flow Period		Closed In Pressure		Second Flow Period		Third Flow Period		Closed In Pressure		Third Flow Period		Closed In Pressure	
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"
0	.000	83	.000	286	.000	.379	691	.000	.000	691							
1	.0175	150	.0198	552	.0635	374*	1164	.0400	.0400	1164							
2	.0350	238	.0396	856	.1304	443	1211	.0800	.0800	1211							
3	.0525	278	.0594	1102	.1973	513	1226	.1200	.1200	1226							
4	.0700	261	.0792	1177	.2642	576	1232	.1600	.1600	1232							
5	.0875	274	.0990	1207	.3311	636	1239	.2000	.2000	1239							
6	.1050	286	.1188	1224	.3980	691	1240	.2400	.2400	1240							
7			.1386	1231			1241	.2800	.2800	1241							
8			.1584	1239			1243	.3200	.3200	1243							
9			.1782	1244			1244	.3600	.3600	1244							
10			.1980	1245			1245	.4000	.4000	1245							
11							1245	.4400	.4400	1245							
12							1247	.4800	.4800	1247							
13							1247	.5200	.5200	1247							
14							1247	.5600	.5600	1247							
15							1247	.6000	.6000	1247							

Gauge No.		113		Depth		4201'		Clock No.		13736		hour		24	
First Flow Period		Closed In Pressure		Second Flow Period		Closed In Pressure		Second Flow Period		Third Flow Period		Closed In Pressure		Third Flow Period	
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$
0	.000	141	.000	317	.000	.374	747	.000	.000	747					
1	.0170	216	.0203	577	.0640	414*	1216	.0405	.0405	1216					
2	.0340	292	.0406	891	.1314	493	1263	.0801	.0801	1263					
3	.0510	313	.0609	1146	.1988	566	1279	.1214	.1214	1279					
4	.0680	290	.0812	1224	.2662	630	1285	.1619	.1619	1285					
5	.0850	305	.1015	1255	.3336	692	1289	.2023	.2023	1289					
6	.1020	317	.1218	1268	.4010	747	1290	.2428	.2428	1290					
7			.1421	1277			1293	.2833	.2833	1293					
8			.1624	1285			1294	.3237	.3237	1294					
9			.1827	1290			1297	.3642	.3642	1297					
10			.2030	1292			1298	.4047	.4047	1298					
11							1298	.4451	.4451	1298					
12							1300	.4856	.4856	1300					
13							1300	.5261	.5261	1300					
14							1301	.5665	.5665	1301					
15							1302	.6070	.6070	1302					

Reading Interval	5	6	20	12	Minutes
REMARKS:	* INTERVAL = 19 MINUTES.				

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Reversing Sub	6"	3.50"	1'	
Water Cushion Valve				
Drill Pipe 4 1/2" XH	4 1/2"	3.826"	3542'	
Drill Collars 4 1/2" XH	6"-6 1/2"	2.25"	538'	
Handling Sub & Choke Assembly	5"	.87"	5'	4091'
Dual CIP Valve				
Dual CIP Sampler	5"	.75"	5'	4095'
Hydro-Spring Tester				
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.25"	5'	4097'
Hydraulic Jar	5"	1.75"	5'	
VR Safety Joint	5"	1.00"	3'	
Pressure Equalizing Crossover				
Packer Assembly				
Distributor				
Packer Assembly				
Flush Joint Anchor				
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case				
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly	6 3/4"	1.50"	6'	4109'
Distributor				
Packer Assembly	6 3/4"	1.50"	6'	4115'
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars	6 1/2"	2.25"	58'	
Flush Joint Anchor	5 3/4"	2.25"	20'	
Blanked-Off B.T. Running Case	5 3/4"	-	5'	4201'
Total Depth				4205'