

BRONCO WOLFCAMP

Lease Name

9

Well No.

1

Test No.

9000' - 9183'

Tested Interval

TAMARACK OIL COMPANY

Lease Owner/Company Name

Legal Location
Sec. - Twp. - Rng.

2 - ?? - 13S

Field
Area

S. BRONCO

County

LEA

State

NEW MEXICO

FLUID SAMPLE DATA				Date 10-15-80		Ticket Number 821311	
Sampler Pressure 10 PSI P.S.I.G. at Surface				Kind of D.S.T. OPEN HOLE		Halliburton Location HOBBS	
Recovery: Cu. Ft. Gas _____				Tester GOMEZ		Witness SELLERS	
cc. Oil _____				Drilling Contractor TOM BROWN DRILLING COMPANY # 13 NM			
cc. Water _____				EQUIPMENT & HOLE DATA S			
cc. Mud 2300				Formation Tested Wolfcamp			
Tot. Liquid cc. 2300				Elevation 3788' Ft.			
Gravity _____ ° API @ _____ ° F.				Net Productive Interval - Ft.			
Gas/Oil Ratio _____ cu. ft./bbl.				All Depths Measured From Kelly Bushing - 13' Ft.			
RESISTIVITY _____ CHLORIDE CONTENT _____				Total Depth 9183' Ft.			
Recovery Water _____ @ _____ ° F. _____ ppm				Main Hole/Casing Size 7 7/8" Ft.			
Recovery Mud _____ @ _____ ° F. _____ ppm				Drill Collar Length 722' I.D. 2.25" Ft.			
Recovery Mud Filtrate _____ @ _____ ° F. _____ ppm				Drill Pipe Length 8231' I.D. 3.826" Ft.			
Mud Pit Sample _____ @ _____ ° F. _____ ppm				Packer Depth(s) 8993' - 9000' Ft.			
Mud Pit Sample Filtrate _____ @ _____ ° F. _____ ppm				Depth Tester Valve 8962' Ft.			
Mud Weight 8.7 vis 40 sec.				Cushion TYPE NONE AMOUNT _____ Depth Back Pres. Valve NONE Surface Choke 1" ADJ. Bottom Choke .75"			
Recovered 398' Feet of fluid - drill mud (estimate)							
Recovered _____ Feet of							
Recovered _____ Feet of							
Recovered _____ Feet of							
Recovered _____ Feet of							
Remarks NOTE: Had a trace of oil in mud system... SEE PRODUCTION							
TEST DATA SHEET...							
TEMPERATURE		Gauge No. 7653 Depth: 8981' Ft.	Gauge No. 7652 Depth: 9179' Ft.	Gauge No. _____ Depth: _____ Ft.	TIME (00:00-24:00 hrs.)		
Est. _____ ° F.		24 Hour Clock Blanked Off NO	24 Hour Clock Blanked Off YES	Hour Clock Blanked Off	Tool Opened 18:30		
Actual 140 ° F.		Pressures		Pressures		Opened Bypass 23:00	
		Field	Office	Field	Office	Reported Minutes	Computed Minutes
Initial Hydrostatic		4121.8	4154.3	4233.6	4220.8		
First Period	Flow Initial	21.8	23.9	84.8	116.5		
	Flow Final	87.2	82.7	169.5	175.8	30	30
	Closed in	2601.8	2582.2	2623.7	2653.2	60	58
Second Period	Flow Initial	87.2	93.6	211.9	186.4		
	Flow Final	217.9	211.3	269.7	302.9	60	63
	Closed in	2601.8	2612.5	2666	2685.0	120	119
Third Period	Flow Initial						
	Flow Final						
Final Hydrostatic		4121.8	4132.6	4191.1	4205.9		

6

Casing perms. _____ Bottom choke _____ Surf. temp _____ °F Ticket No. 821311
Gas gravity _____ Oil gravity _____ GOR _____
Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F

INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED.

[illegible]

LABORATORY WATER ANALYSIS

TICKET NO. 821311TO TAMARACK OIL COMPANYDATE 10-16-80BOX 2046MIDLAND, TEXAS

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W80-1135

Submitted by FletcherDate Rec. 10-16-80Well No. Bronco Wolfcamp # 9 Depth Formation WolfcampCounty Lea Field Source

Sample Marked	<u>SAMPLER</u>	<u>TOOL TOP</u>	<u>TOP RECOVERY</u>	<u> </u>
pH	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Resistivity Ohm m ² /m	<u>.600 @ 74°</u>	<u>.580 @ 74°</u>	<u>.420 @ 74°</u>	<u> </u>
Temperature °F	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Specific Gravity	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Chlorides MPL	<u>6000</u>	<u>6500</u>	<u>9500</u>	<u> </u>

PIT SAMPLE - Resistivity .440 @ 74°Chlorides 9000

Sampler

Pressure	<u> </u> PSI	pH	<u> </u>
Mud	<u> </u> cc	Resistivity Ohm m ² /m	<u> </u>
Oil	<u> </u> cc	Temperature	<u> </u>
Gas	<u> </u> ft. ³	Specific Gravity	<u> </u>
Water	<u> </u> cc	Chlorides MPL	<u> </u>
Total Recovery	<u> </u> cc	Calcium MPL	<u> </u>
Remarks		Magnesium MPL	<u> </u>
		Sulfates	<u> </u>
		Iron	<u> </u>

Analyst: Jackson

HALLIBURTON COMPANY

cc:

By

CHEMIST

NOTICE

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6

Gauge No. 7653			Depth 8981'			Clock No. 5981			24 hour			Ticket No. 821311		
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"	$\text{Log } t + \frac{\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log } t + \frac{\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log } t + \frac{\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log } t + \frac{\theta}{\theta}$	PSIG Temp. Corr.
0	.000	23.9	.000		82.7	.000		93.6	.000		211.3			
1	.0162	28.3	.0067		1213.8	.0419		119.8**	.0236		1749.4***			
2	.0323	41.3	.0201		1848.8	.0741		137.2	.0505		2069.2			
3	.0485	52.2	.0334		2073.5	.1063		156.8	.0775		2179.6			
4	.0647	61.0	.0468		2181.8	.1386		176.4	.1045		2253.2			
5	.0808	71.8	.0602		2246.7	.1708		193.8	.1314		2298.7			
6	.0970	82.7	.0736		2296.5	.2030		211.3	.1584		2339.8			
7			.0870		2339.8				.1853		2376.6			
8			.1003		2376.6				.2123		2413.4			
9			.1137		2415.5				.2393		2448.0			
10			.1271		2443.7				.2662		2480.5			
11			.1405		2480.5				.2932		2510.8			
12			.1539		2510.8				.3201		2538.9			
13			.1672		2538.9				.3471		2564.9			
14			.1806		2562.7				.3740		2590.9			
15			.1940		2582.2				.4010		2612.5			

Gauge No. 7652			Depth 9179'			Clock No. 10567			hour 24		
Time Defl. .000"	PSIG Temp. Corr.		Time Defl. .000"	$\text{Log } t + \frac{\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log } t + \frac{\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log } t + \frac{\theta}{\theta}$	PSIG Temp. Corr.
0	.000	116.5	.000		175.8	.000		186.4	.000		302.9
1	.0165	122.8	.0066		1340.3*	.0433		211.8**	.0233		1868.9***
2	.0330	133.4	.0198		1949.2	.0767		230.9	.0499		2154.3
3	.0495	146.1	.0329		2152.2	.1100		247.8	.0765		2268.5
4	.0660	154.6	.0461		2262.1	.1433		269.0	.1032		2331.9
5	.0825	165.2	.0593		2321.3	.1767		286.0	.1298		2376.3
6	.0990	175.8	.0724		2376.3	.2100		302.9	.1564		2416.4
7			.0856		2412.2				.1830		2454.5
8			.0988		2450.3				.2096		2492.6
9			.1120		2490.4				.2363		2526.4
10			.1251		2517.9				.2629		2558.1
11			.1383		2549.6				.2895		2587.7
12			.1515		2577.1				.3161		2615.2
13			.1647		2606.7				.3428		2640.6
14			.1778		2636.3				.3694		2665.9
15			.1910		2653.2				.3960		2685.0

Reading Interval	5	4	10	8	Minutes
REMARKS:	* INTERVAL = 2 MINUTES. ** INTERVAL = 13 MINUTES. *** INTERVAL = 7 MINUTES.				

SPECIAL PRESSURE DATA

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Drill Collars	5.75"	2.5"	1'	8837'
Reversing Sub				
Water Cushion Valve	4.5"	3.826"	8231'	
Drill Pipe	6.25"	2.25"	722'	
Drill Collars				
Handling Sub & Choke Assembly				
Dual CIP Valve	6"	3.00"	1'	
Drill Pipe Sampler X-OVER	5"	.75"	4'	8962'
Hydro-Spring Tester				
Multiple CIP Sampler	5"	.75"	5'	
Extension Joint 2 EACH	5"	.87"	10'	
AP Running Case	5"	3.25"	4'	8981'
Hydraulic Jar	5"	1.75"	5'	
VR Safety Joint	5"	1.00"	3'	
Pressure Equalizing Crossover				
Packer Assembly	7"	1.53"	5'	8993'
Distributor	5"	1.68"	2'	
Packer Assembly	7"	1.53"	5'	9000'
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	5.75"	1.50"	4'	
2 1/2" Well Anchor X-OVER	5.50"	2.50"	1'	
Drill Collars	6 1/4"	2.25"	152'	
X-OVER	5.75"	2.50"	1'	
Flush Joint Anchor	5.75"	3.25"	20'	
Blanked-Off B.T. Running Case	5.75"	3.25"	4'	9179'
Total Depth				9183'