CORE LABORATORIES, INC.

Petroleum Reservoir Engineering

COMPANY COLORADO OIL & GAS CORP. FIELD UN-NAMED FILE RP-2-4305

WELL NO. 32-11 SNIFF RANCH COUNTY BENT DATE 4-4-72

LOCATION SW NE Sec. 11 T24S R49W STATE COLORADO ELEV. 3834 KB

CORE-GAMMA CORRELATION

VERTICAL SCALE: 5" = 100'

CORE-GAMMA SURFACE LOG
(PATENT APPLIED FOR)

COPPER CITY
RADIATION INCREASE

COREGRAPH

TOTAL WATER
PERCENT TOTAL WATER
80 60 40 20

PERMEABILITY
MILLIDARCYS
100 50 10 5 1

POROSITY
PERCENT

OIL SATURATION
PERCENT PORE SPACE
0 20 40 60 80

3986

4016

FLUID SAMPLE DATA

Sampler Pressure 145 P.S.I.G. at Surface
Recovery: Cu. Ft. Gas
cc. Oil
cc. Water 2200
cc. Mud
Tot. Liquid cc. 2200
Gravity ° API @ °F.
Gas/Oil Ratio cu. ft./bbl.

	RESISTIVITY	CHLORIDE CONTENT
Recovery Water	.12 @ 66 °F.	49,000 ppm
Recovery Mud	@ °F.	
Recovery Mud Filtrate	@ °F.	ppm
Mud Pit Sample	@ °F.	
Mud Pit Sample Filtrate	@ °F.	400 ppm
Mud Weight	9 vis	38 cp

Date 4-4-72 Ticket Number 524907
Kind of Job OPEN HOLE Halliburton District LIBERAL
Tester MR. THOMAS Witness MR. MARDEN
Drilling Contractor DAVIS DRILLING COMPANY IC S

EQUIPMENT & HOLE DATA

Formation Tested Cherokee
Elevation 3833' Ft.
Net Productive Interval 16' Ft.
All Depths Measured From Kelly Bushing
Total Depth 4016' Ft.
Main Hole/Casing Size 8 3/4"
Drill Collar Length 510' I.D. 2.25"
Drill Pipe Length 3470' I.D. 2.764"
Packer Depth(s) 3995' - 4000' Ft.
Depth Tester Valve 3975' Ft.

Cushion TYPE - AMOUNT Ft. Depth Back Pres. Valve - Surface Choke 1/4" Bottom Choke 5/8"

Recovered 330 Feet of Muddy water
Recovered 240 Feet of Slightly gas cut muddy water
Recovered Feet of
Recovered Feet of
Recovered Feet of

Mea. From Tester Valve

Remarks Opened tool for 20 minute first flow with a weak blow increasing to fair. Closed tool for 61 minute initial closed in pressure. Reopened tool for 89 minute second flow with a weak blow slightly increasing to a stabilized flow in 30 minutes. Closed tool for 90 minute second closed in pressure.

TEMPERATURE	Gauge No. 534 Depth: 3979' Ft.	Gauge No. 533 Depth: 4012' Ft.	Gauge No. Depth: Ft.	TIME
	12 Hour Clock	12 Hour Clock	Hour Clock	Tool Opened 9:14 A.M. XXX
Est. °F.	Blanked Off NO	Blanked Off YES	Blanked Off	Tool Closed 1:34 P.M. XXX
Actual 103 °F.	Pressures	Pressures	Pressures	

		Field	Office	Field	Office	Field	Office	Reported Minutes	Computed Minutes
Initial Hydrostatic		-	1932	1937	1943				
First Period	Flow Initial	-	9	28	26			—	—
	Flow Final	-	85	95	98			20	20
	Closed in	-	1496	1508	1506			60	61
Second Period	Flow Initial	-	97	104	114			—	—
	Flow Final	-	261	275	273			90	89
	Closed in	-	1418	1422	1431			90	90
Third Period	Flow Initial							—	—
	Flow Final								
	Closed in								
Final Hydrostatic		-	1922	1927	1931			—	—

Legal Location Sec. - Twp. - Rng. 11 - 24 - 49
Lease Name SNIFF RANCH
Well No. 32-11
Test No. 1
Tested Interval 4000' - 4016'
Field Area W. LAMAR
County BENT
State COLORADO
Lease Owner/Company Name COLORADO OIL COMPANY

Gauge No.	534	Depth	3979'	Clock No.	10287	12 hour	Ticket No.	524907

	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"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.
0	.000	9	.000		85	.000	97	.000		261					
1	.0264	32	.0394		1137	.1004	139	.060		1068					
2	.0528	48	.0788		1264	.2009	174	.120		1179					
3	.0792	61	.1182		1335	.3013	202	.180		1243					
4	.1056	74	.1576		1380	.4018	225	.240		1287					
5	.1320	85	.1970		1412	.5022	245	.300		1322					
6			.2364		1436	.5960	261**	.360		1348					
7			.2758		1456			.420		1370					
8			.3152		1472			.480		1389					
9			.3546		1484			.540		1404					
10			.4010		1496*			.600		1418					
11															
12															
13															
14															
15															

Gauge No.	533	Depth	4012'	Clock No.	3225	12 hour

0	.000	26	.000		98	.000	114	.000		273					
1	.0268	46	.0398		1139	.1004	153	.0601		1075					
2	.0536	63	.0796		1271	.2009	187	.1202		1189					
3	.0804	76	.1194		1343	.3013	214	.1803		1256					
4	.1072	87	.1592		1390	.4018	239	.2404		1300					
5	.1340	98	.1990		1424	.5022	258	.3005		1334					
6			.2388		1448	.5960	273**	.3606		1359					
7			.2786		1468			.4207		1382					
8			.3184		1481			.4808		1401					
9			.3582		1494			.5409		1417					
10			.4050		1506*			.6010		1431					
11															
12															
13															
14															
15															
Reading Interval	4		6			15		9							Minutes

REMARKS: *Last interval equal to 7 minutes **Last interval equal to 14 minutes