


RECEIVED

FLUID SAMPLE DATA				EQUIPMENT & HOLE DATA			
Sampler Pressure <u>8</u>		P.S.I.G. at Surface		Date	5-28-73 JUN 19 1973		Ticket Number 370186
Recovery: Cu. Ft. Gas				Kind of Job	OPEN HOLE 2 GAS		Hol' Dis
cc. Oil							
cc. Water				00575085			
cc. Mud		2200		Tester	MR. THOMAS		Witness MR. MARDEN
Tot. Liquid cc.		2200		Drilling Contractor	MURFIN DRILLING COMPANY		BC
Gravity		° API @ ° F.					
Gas/Oil Ratio		cu. ft./bbl.					
RESISTIVITY		CHLORIDE CONTENT					
Recovery Water		@ ° F. ppm		Formation Tested Atoka			
Recovery Mud		@ ° F.		Elevation 3910' Estimated Ft.			
Recovery Mud Filtrate		@ ° F. ppm		Net Productive Interval 4356' - 4364' Ft.			
Mud Pit Sample		@ ° F.		All Depths Measured From Kelly Bushing			
Mud Pit Sample Filtrate		@ ° F. 500 ppm		Total Depth 4364' Ft.			
Mud Weight 9.2		vis 42 cp		Main Hole/Casing Size 7 7/8"			
				Drill Collar Length 527' I.D. 2.25"			
				Drill Pipe Length 3842' I.D. 3.826"			
				Packer Depth(s) 4349' - 4356' Ft.			
				Depth Tester Valve 4329' Ft.			
TYPE		AMOUNT		Depth Back Pres. Valve		Surface Choke 1 1/4"	
Cushion						Bottom Choke 5/8"	
Recovered 30		Feet of Watery mud					
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Remarks Tool opened for a 10 minute first flow with a weak blow, increasing to a fair blow, 5" in water. Closed tool for 60 minute first closed in pressure. Reopened tool for 60 minute second flow with a weak blow, 3" in water with a gradual decrease to dead in one hour. Closed tool for 90 minute second closed in pressure.							
TEMPERATURE		Gauge No. 3993		Gauge No. 3971		Gauge No.	
Depth: 4333' Ft.		Depth: 4360' Ft.		Depth: Ft.		TIME	
12 Hour Clock		12 Hour Clock		Hour Clock		Tool A.M.	
Blanked Off No		Blanked Off Yes		Blanked Off		Opened 8:33 P.M.	
Actual 116°F.		Pressures		Pressures		Tool A.M.	
		Pressures		Pressures		Closed 12:13 P.M.	
		Field Office		Field Office		Reported Computed	
		Field Office		Field Office		Minutes Minutes	
Initial Hydrostatic		2069 2080		2096			
Flow Initial		14 16		27		10	
Flow Final		14 16		27		60	
Closed in		72 69		79			
Flow Initial		14 16		24		60	
Flow Final		14 19		24		90	
Closed in		72 63		71			
Flow Initial							
Flow Final							
Closed in							
Final Hydrostatic		2069 2071		2084			

Legal Location Sec. - Twp. 1 - 24 - 49 C-NE-SW

Lease Name SNIPP RANCH

Well No. 23-1

Test No. 1

Field Area SOUTH OF HASTY

Med. From Tester Valve


County BENT

Tested Interval 4356' - 4364'

Lease Owner/Company Name COLORADO OIL COMPANY

Store COLORADO

RECEIVED

FLUID SAMPLE DATA				Date		Ticket Number	
Sampler Pressure <u>240</u> P.S.I.G. at Surface				5-30-73 JUN 19 1973		370187	
Recovery: Cu. Ft. Gas <u>.25</u>				Kind of Job <u>OPEN HOLE</u>			
cc. Oil _____				Tester <u>MR. THOMAS</u>		Witness <u>MR. MARDEN</u>	
cc. Water <u>1600</u>				Drilling Contractor <u>MURFIN DRILLING COMPANY</u>		BC S	
cc. Mud _____				EQUIPMENT & HOLE DATA			
Tot. Liquid cc. _____				Formation Tested <u>Atoka</u>			
Gravity _____ ° API @ _____ ° F.				Elevation <u>3917'</u> Ft.			
Gas/Oil Ratio _____ cu. ft./bbl.				Net Productive Interval <u>1'</u> Ft.			
RESISTIVITY _____ CHLORIDE CONTENT _____				All Depths Measured From <u>Kelly Bushing</u>			
Recovery Water <u>.22</u> @ <u>75</u> ° F. <u>75,000</u> ppm				Total Depth <u>4464'</u> Ft.			
Recovery Mud _____ @ _____ ° F.				Main Hole/Casing Size <u>7 7/8"</u>			
Recovery Mud Filtrate _____ @ _____ ° F. _____ ppm				Drill Collar Length <u>480'</u> I.D. <u>2.25"</u>			
Mud Pit Sample _____ @ _____ ° F.				Drill Pipe Length <u>3892'</u> I.D. <u>3.826"</u>			
Mud Pit Sample Filtrate <u>9.2</u> @ _____ ° F. <u>500</u> ppm				Packer Depth(s) <u>4349' - 4355'</u> Ft.			
Mud Weight <u>9.2</u> vis <u>44</u> cp				Depth Tester Valve <u>4329'</u> Ft.			
TYPE		AMOUNT		Depth Back Pres. Valve		Surface Choke	
Cushion				Ft.		Bottom Choke <u>5/8"</u>	
Recovered		<u>121</u> Feet of Gas in pipe					
Recovered		<u>120</u> Feet of Very slightly gas cut mud					
Recovered		<u>120</u> Feet of Very slightly gas cut muddy water					
Recovered		<u>1961</u> Feet of Water, very slightly gas cut					
Recovered		Feet of					
Remarks Tool opened for a 10 minute first flow with a strong blow, 16" water in 5 minutes. Closed tool for 60 minute first closed in pressure. Reopened tool for 121 minute second flow with a strong blow, decreasing to a weak blow. Closed tool for 89 minute second closed in pressure.							
TEMPERATURE		Gauge No. <u>3971</u>		Gauge No. <u>3993</u>		Gauge No.	
Depth: <u>4333'</u> Ft.		Depth: <u>4460'</u> Ft.		Depth: _____ Ft.		TIME	
Est. _____ ° F.		12 Hour Clock		12 Hour Clock		Hour Clock	
Blanked Off <u>No</u>		Blanked Off <u>Yes</u>		Blanked Off _____		Tool _____ A.M.	
Actual <u>116</u> ° F.		Pressures		Pressures		Tool _____ A.M.	
		Field Office		Field Office		Closed _____ P.M.	
Initial Hydrostatic		<u>2169</u> <u>2073</u>		<u>2140</u>		Reported _____ Computed _____	
Flow Initial		<u>143</u> <u>126</u>		<u>206</u>		Minutes _____ Minutes _____	
Flow Final		<u>286</u> <u>276</u>		<u>337</u>		<u>10</u> <u>10</u>	
Closed in		<u>1797</u> <u>1711</u>		<u>1773</u>		<u>60</u> <u>60</u>	
Flow Initial		<u>286</u> <u>293</u>		<u>360</u>		<u>120</u> <u>121</u>	
Flow Final		<u>1084</u> <u>1035</u>		<u>1094</u>		<u>90</u> <u>89</u>	
Closed in		<u>1726</u> <u>1648</u>		<u>1709</u>		_____ _____	
Flow Initial							
Flow Final							
Closed in							
Final Hydrostatic		<u>2154</u> <u>2039</u>		<u>2104</u>			

Legal Location Sec. - Twp. - Rng. 1 - 24 - 49 C-NE-SW
Lease Name
Well No. 2
Test No. 2
Field Area
Meas. From Tester Valve
COUNTY BENT
State COLORADO

SNIFE RANCH

23-1

4355' - 4464'

COLORADO OIL COMPANY

Lease Owner/Company Name

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JUN 19 1973



	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub	5 1/2"	2.5"	1'	
Water Cushion Valve				
Drill Pipe	4 1/2"	3.826"	3842'	
Drill Collars	6 1/4"	2.25"	527'	
Handling Sub & Choke Assembly	5"	2.5"	5'	
Dual CIP Valve				
Dual CIP Sampler	5"	.87"	7'	
Hydro-Spring Tester	5"	.75"	5'	4329'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	4'	4333'
Hydraulic Jar	5"	.87"	5'	
VR Safety Joint	5"	1"	3'	
Pressure Equalizing Crossover				
Packer Assembly	5 X 6 3/4"	1.53"	7'	4349'
Distributor				
Packer Assembly	5 X 6 3/4"	1.53"	7'	4356'
Flush Joint Anchor				
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case				
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor	5"	3.06"	3'	
Blanked-Off B.T. Running Case	5"	3.06"	4'	4360'

370187

RECEIVED

JUN 19 1970



	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub	5 1/2"	2.5"	1'	
Water Cushion Valve				
Drill Pipe	4 1/2"	3.826"	389'	
Drill Collars	6 1/2"	2.25"	480'	
Handling Sub & Choke Assembly	4 1/2"	1.5"	5'	
Dual CIP Valve				
Dual CIP Sampler	5"	.87"	7'	
Hydro-Spring Tester	5"	.75"	5'	4329'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	4'	4333'
Hydraulic Jar	5"	.87"	5'	
VR Safety Joint	5"	1"	3'	
Pressure Equalizing Crossover				
Packer Assembly	5" & 6 3/4"	1.53"	6'	4349'
Distributor				
Packer Assembly	5" & 6 3/4"	1.53"	6'	4355'
Flush Joint Anchor				
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case				
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars	6 1/2"	2.25"	88'	
Flush Joint Anchor	5"	3.06"	12'	
Blanked-Off B.T. Running Case	5"	3.06"	4'	4460'

Gauge No. 3971			Depth 4333'				Clock No. 10287			12 hour	Ticket No. 370187					
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"	$\text{Log} \frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log} \frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log} \frac{t + \theta}{\theta}$	PSIG Temp. Corr.	
0	.0000	126	.0000		276	.0000	293	.0000		1035						
1	.0136	163	.0268		1607	.1394	343*	.0335		1550**						
2	.0272	210	.0536		1651	.2721	625	.0737		1579						
3	.0408	242	.0804		1668	.4048	748	.1139		1595						
4	.0544	263	.1072		1679	.5375	857	.1541		1605						
5	.0680	276	.1340		1688	.6702	953	.1943		1613						
6			.1608		1693	.8030	1035	.2345		1618						
7			.1876		1696			.2747		1625						
8			.2144		1698			.3149		1628						
9			.2412		1601			.3551		1633						
10			.2680		1604			.3953		1636						
11			.2948		1705			.4355		1639						
12			.3216		1707			.4757		1641						
13			.3484		1708			.5159		1644						
14			.3752		1709			.5561		1645						
15			.4020		1711			.5960		1648						

Gauge No. 3993			Depth 4460'			Clock No. 11657			12 hour						
0	.0000	206	.0000		337	.0000	360	.0000		1094					
1	.0140	207	.0273		1664	.1425	534*	.0340		1609**					
2	.0280	256	.0545		1709	.2782	682	.0749		1640					
3	.0420	300	.0818		1729	.4139	806	.1158		1654					
4	.0560	321	.1091		1740	.5496	915	.1567		1666					
5	.0700	337	.1364		1747	.6853	1011	.1976		1673					
6			.1636		1753	.8210	1094	.2385		1680					
7			.1909		1757			.2794		1684					
8			.2182		1760			.3203		1689					
9			.2454		1763			.3612		1693					
10			.2727		1764			.4021		1697					
11			.3000		1767			.4430		1700					
12			.3272		1769			.4839		1701					
13			.3545		1770			.5248		1706					
14			.3818		1771			.5657		1707					
15			.4090		1773			.6060		1709					
Reading Interval		2			4			20			6				

REMARKS: *Interval = 21 minutes **Interval = 5 minutes

