

NOMENCLATURE

СЪ	μ = Viscosity Gas or Liquid
	Z = Compressibility Factor
χΰ	T = Temperature Rankine
Minutes	t。 = Total Flow Time
Minutes	↑ = Flow Time
Feet	r = Radius of Well Bore
bbis	R = Corrected Recovery
MCF/D	Q <sub>g</sub> = Measured Gas Production Rate
bbls/day	Q1 = Theoretical Production w/Damage Removed
bbls/day	Q = Average Adjusted Production Rate During Test
· · · · · Feet	P er = Potentiometric Surface (Fresh Water*)
Psig.	P <sub>F</sub> = Final Flow Pressure
Psig.	P <sub>s</sub> = Extrapolated Static Pressure
n MCF/D	$OF_4 =$ Theoretical Open Flow Potential with/Damage Removed Min.
x MCF/D	$OF_3 =$ Theoretical Open Flow Potential with/Damage Removed Max.
MCF/D	OF <sub>2</sub> = Minimum Indicated Flow Rate
MCF/D	OF1 = Maximum Indicated Flow Rate
psi/cycle	m = Slope Extrapolated Pressure Plot (Psi <sup>2</sup> /cycle Gas)
md	K <sub>1</sub> = Permeability (From Net Pay Zone h.)
md	K = Permeability
····Feet	h <sub>1</sub> = Net Pay Thickness
Feet	h = Interval Tested
Feet	GD = B.T. Gauge Depth (From Surface Reference)
Feet	El = Elevation
	D.R. = Damage Ratio
Feet	<b>b</b> <sub>1</sub> = Approximate Radius of Investigation (Net Pay Zone h.)
Feet	b = Approximate Radius of Investigation

<sup>\*</sup> Potentismetric Surface Reference \* 18 mar, Table When Elevation Not Given, Fresh Water Corrected to 100 F.

	SAMPL			Date ]	-3-77	Ticke <b>t</b> Number	008958		Legal Lo Scc. – Tw	
Sampler Pressure_ Recovery: Cu. Ft.		P.S.1.G.	at Surface	Kind 01 of Job	PEN HOLE	Halliburta District	Pr FARMIN	GTON	Location Twp Rng.	
cc. Oil cc. Wate	er 2250			Tester M	R. HOEFER	Witness	MR. MO	ORE	رو	Feat
cc. Mud Tot. Lia	uid ec. 2250			Contractor		S DRILLING	_	SM		Lease Name
Gravity	·	API @	°F.			& HOLE	DATA			0 F-
Gas/Oil Ratio	RESIST		cu, ft./bbl. .ORIDE NTENT	Formation Teste	(	6903'		Ft.	3-2	(ပ
D	വാ ത			Net Productive		15' Kelly bush	ina	Ft.	1-6	
Recovery Mud		60 °F	ppm	All Depths Mea		6618'	ing	Ft.		
Recovery Mud Filt	rate @	°F.	ppm	Main Hole/Cas	ng Size	8 3/4"	0 7 (8)			
Mud Pit Sample Mud Pit Sample Fi	2.45@		ppm	Drill Collar Len	gth	621' 1.D. 5944' 1.D.	2 1/4" 3.826"			Well No.
Mud Pit Sample Fi	itrate	r	ppm	Drill Pipe Leng Packer Depth(s)	<del></del>	6597-66031	3.020	Ft.		No.
Mud Weight	8.9	vis 63	sec ⊁ <sup>p</sup>	Depth Tester Vo		6575'		Ft.		l
TYPE Cushion	AMOUNT		Depth Back Pres. Valve		Surface	Bott 3/4" Adji <sup>Cho</sup>				귀
	0.0	of vistors o	+ md					>	Field Area	Test No.
Recovered	86 Feet	or water c	ut muu_				*	Mea. F	8 2	
Recovered 5	044 Feet	of water						From	Σ	
Recovered	Feet	of					· · · · · · · · · · · · · · · · · · ·	Tester	WILDCAT	
Recovered	Feet	of						Valve	AT_	6603
Recovered	Feet	of		-						
Remarks S	EE PRODUCT	ION TEST D	ATA SHEE	<u>. T</u>						Tested Interval
C	harts indi	cate possi	ble part	ial pluggi	ng of anch	or perfora	tions du	ıring	S C	
i	nitial flo	w period.							ounty	
TEMPERATURE	ì	040	Gauge No.	6039	Gauge No.	_	ī	IME	SANDOVAL	
		580 Ft. 2 Hour Clock		6614 F		Ft. Hour Clock	Tool	A.M.	IDO	
Est°F.	Blanked Off n	<del></del>	Blanked Of		Blanked Off			235 P.M.	Æ	DOME
							Opened Bypass 1	A.M.		1 1
Actual 160 °F.	Press	i i		ressures Office	Field	Ssures Office	Reported	528 P.M. Computed		2 -1
Initial Hydrostatic	Field 3166	0ffice 3158	3183	3176	rieid	Office	Minutes	Minutes		
Initial	1706	1621	2299	2264					State	) Š
Flow Final	2613	2550	2892	2616			20		1	1 3/5
Closed in	2626	2634	2892	2656			30		NEW	
	2626	2599	2892	2599					1	1 7 6
B FlowInitial			1 2002	2661	1	į .	63		۱m	1 4.5.
Flow Final	2626	2636	2892			-		<del> </del>	<b>-</b>	38
Flow Final Closed in		2636 2639	2892	2661			60		XIC	ome
Flow Final Closed in	2626						60		MEXICO	ome
Flow Final Closed in Initial Final	2626						60		XIC0	Ome Come
Flow Final Closed in	2626						60		XICO	Lease Owner/Company Name

Casing perfs		Bottom	choke		Surf, temp°F Ticket No008958
Gas arayity		Oil aray	itv		GOR
Spec. gravity	E AND SIZE	Chloride	SURING DEVICE U		m Res
Date Time a.n	Choke	Surface Pressure	Gas Rate	Liquid Rate BPD	Remarks
p.ti	1 - 1	psi	MCF	BPD	-
07:00					On location
08:30					Picked up and made up tools
09;30					Started in hole
12:33					Tools on bottom
12:35					Opened tool with a good to strong blow in 3 minutes. Closed tool
13:25					Opened tool with good to fair blow.
14:28					Closed tool at surface
					Could not rotate
15:28					Opened bypass
16:30				-	Hit fluid 5230'
					186' water and mud (5044' water)
19:30					Laid down tools
21:30					Left location.
		<u>.</u>			

3	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Reversing Sub	6"	2.50"	1'	
D S Wasan Carleton Walter				
Water Cushion Valve	4 1/2"	3.826"	5944'	
Drill Collars		2.25"	621'	
Handling Sub & Choke Assembly			021	
Dual CIP Valve				
Dual CIP Sampler	5"	.87"	8'	6567 '
Hydro-Spring Tester	5"	.75"	5'	6575'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.50"	4'	6580'
Hydraulic Jar	5"	1.75"	5'	
VR Safety Joint	5"	1.00"	31	
Pressure Equalizing Crossover				
Packer Assembly	7 3/4"	1.53"	6'	6597'
Distributor				
Packer Assembly	7 3/4"	1.53"	6'	6603'
Flush Joint Anchor				
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case				
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Distributor				
•				
Packer Assembly			·	
d.				
Anchor Pipe Safety Joint			***************************************	
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor	5 3/4"	_2.50"	_10'	
Blanked-Off B.T. Running Case	5 3/4"	3.50"	4'	6614'
Total Depth				6618'