

Operator Name VAC Lease Name Howell Well# 1-18 SEC. 18 TWP. 29S RGE. 15 East West

WELL LOG

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken Yes No
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No

Formation Description
 Log Sample

DST #1 4647-4699 Mississippi & Kinderhook

IHP 2329 PSI
 IFP 30 min. 73 PSI to 88 PSI
 ICIP 30 min. 121 PSI
 FFP 30 min. 116 PSI to 74 PSI
 FCIP 33 min. 81 PSI
 FHP 2300 PSI
 TEMP: 122°F
 Rec: 10' Oil Specked Mud

Name	Top	Bottom
Heebner	3967	(-1907)
Toronto	3984	(-1924)
Douglas Sh	4008	(-1948)
Brown Lime	4134	(-2074)
Lansing	4144	(-2084)
Base/K.C.	4513	(-2453)
Marmaton	4528	(-2468)
Mississippi	4647	(-2587)
Kinderhook Chert	4681	(-2621)
Viola Chert	4752	(-2692)
Simpson Shale	4836	(-2776)
Simpson Sand	4851	(-2791)
Arbuckle	4938	(-2878)

DST #2 4752-4818 Viola

IHP 2369 PSI
 IFP 30 min. 802 PSI to 1409 PSI
 ICIP 45 min. 1643 PSI
 FFP 60 min. 1512 PSI to 1644 PSI
 FCIP 45 min. 1650 PSI
 FHP 2329 PSI
 Gas to surface 5 min. 2nd open Temp: 120°F
 Rec: 225' of 30% oil, 20% Gas, 50% Mud
 120' of 33% Oil, 25% Gas, 22% Water, 20% Mud
 420' of 50% Oil, 15% Gas, 30% Water, 5% Mud
 780' of 70% Oil, 3% Gas, 22% Water, 5% Mud
 2625' of 85% Oil, 13% Water, 2% Mud

Gravity 36°
 Reversed out 35 Stands.

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FROM CONFIDENTIAL

CASING RECORD <input checked="" type="checkbox"/> new <input type="checkbox"/> used							
Report all strings set - conductor, surface, intermediate, production, etc.							
Purpose of string	size hole drilled	size casing set (in O.D.)	weight lbs/ft.	setting depth	type of cement	# sacks used	type and percent additives
Surface Casing	12	8.5/8	23 lbs.	436	Common	350	3% cc., 2% Gel
Production Casing	7.7/8	5.1/2	14 lbs.	4958	Lt. Com.	225 sx	60-40 Poz
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
shots per foot	specify footage of each interval perforated			(amount and kind of material used)			Depth
4	4816-22			None			
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
size	set at	packer at					
Date of First Production	Producing method <input checked="" type="checkbox"/> flowing <input checked="" type="checkbox"/> pumping <input type="checkbox"/> gas lift <input type="checkbox"/> Other (explain)						
7-5-85							
Estimated Production Per 24 Hours	Oil	Gas	Water	Gas-Oil Ratio	Gravity		
174					36°		
	Bbls	MCF	Bbls	CFPB			

Disposition of gas: vented
 sold
 used on lease

METHOD OF COMPLETION
 open hole perforation
 other (specify)

PRODUCTION INTERVAL

..... 4816-22

Dually Completed.
 Commingled