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SIDE TWO

Operator Name A. L. Abercrombie, Inc. Lease Name Bertrand Well # "E" #2
Sec. 26 Twp. 11 Rge. 33 ☐ East ☒ West County Logan

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 (4034'-4105') 30-45-45-60, fair blow to weak; 160' fluid, 40' OSM, 120' mud; IFP 89-95' FFP 116-122; ISIP 1286; FSIP 1247
DST #2 (4107'-4130') "E" Zone Lansing; 30-45-45-60; Rec. 520' CGO (37°); 180' HOMO; IFP 109-128; FFP 217-296; ISIP 1270; FSIP 1227
DST #3 (4176'-4210') "H" Zone; 30-45-45-60; Rec. 70' GIP; 50' GOM; (10% gas, 20% oil, 70% mud); IFP 77-80; FFP 83-83; ISIP 767' FSIP 803
DST #4 (4210'-4260') "I" & "J" Zones; 30-30-30-30; Rec. 20' SOCM (2% oil); IFP 65-65; FFP 67-67; ISIP 197; FSIP 79
DST #5 (4260'-4290') "K" Zone Lansing; 30-45-45-60; Rec. 250' GIP; 30' clean oil (35°); 120' OGOM (12% oil, 5% gas, 83% mud); 60' muddy water, (60% water); IFP 55-65; FFP 92-108; ISIP 1011; FSIP 990
DST #6 (4541'-4612') 30-45-45-60, Johnson Zone; GTS 20 min into 2nd open period; Rec. 60' OS gsy mud; 120' HMO (55% oil); 120' SMO (80% oil); IFP 118-124; FFP 176-186; ISIP 306; FSIP 306

Name	Top	Bottom
Anhydrite	2586' (+519)	
Base Anhydrite	2611' (+494)	
Heebner	4003' (-898)	
Lansing	4042' (-937)	
Stark Shale	4262' (-1157)	
BKC	4341' (-1236)	
Fort Scott	4515' (-1410)	
Cherokee	4542' (-1437)	
Johnson Zone	4587' (-1482)	
Mississippian	4650' (-1545)	
RTD	4680'	
LTD	4679'	

CASING RECORD ☐ New ☐ 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	12-1/4	8-5/8	20	203	60/40 posm	140	3% ca. cl. 6% gel
Production	7-7/8	4-1/2	10-1/2	4677	Common	180	1-2% 5% oil/sack
D.V. Tool				1706	Lightweight	550	

PERFORATION RECORD

Shots Per Foot	Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
2	4276-4278	500 gal. 15% INC	4330
4	4200-4202	500 gal. 15% INC	4214
4	4117-4120	1500 gal. 15% INC	4140

TUBING RECORD Size 2-3/8" Set At 4638 Packer at Liner Run ☐ Yes ☐ No

Date of First Production 3-7-87 Producing Method ☐ Flowing ☒ Pumping ☐ Gas Lift ☐ Other (explain).....

	Oil	Gas	Water	Gas-Oil Ratio	Gravity
Estimated Production Per 24 hours	70 Bbls	MCF	Trace 30 Bbls		CFPE

METHOD OF COMPLETION

Disposition of gas: ☐ Vented ☐ Open Hole ☒ Perforation
☐ Solid ☐ Other (Specify)
☐ Used on Lease ☐ Dually Completed ☐ Commingled

