

SIDE TWO

Operator Name Boger Brothers Drilling, Inc. Lease Name Heven Well # 1

Sec. 27 Twp. 22S Rge. 11 East West County Stafford

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 - 3253-3314'. 45-45-45-45. Blow strong, gas to surface 20 min., to small to measure. Recovered - 115' sogcm, 300' very slightly oil & gas cut watery mud, 60' water. ISIP 1299, FSIP 1284, IFP 75-142, FFP 175-242, HSH 1665-1649.

DST #2 - 3404-3445'. 45-45-45-45. Blow weak to tood. Recovered 1600' gas, 75' heavy oil cut mud, 2' free oil. ISIP 125, FSIP 175, IFP 41-50, FFP 58-66, HSH 1682-1671 psi.

DST #3 - 3456-3492'. 30-30-30-30. Blow weak, died in 20 min. Recovered 5' oil specked mud. ISIP 16, FSIP 16, IFP 16-16, FFP 16-16, HSH 1784-1772 psi.

DST #4 - 3560-3635'. 45-45-45-45. Blow weak to good. Recovered 180' gas in pipe, 5' clean gassy oil, 335' oil cut mud, 180' oil cut water, 120' water with show of oil. ISIP 1199, FSIP 1190, IFP 100-175, FFP 234-301, HSH 1840-1821 psi.

Name	Top	Bottom
Anhydrite	498	+1305
Heebner	3051	-1248
Toronto	3071	-1268
Douglas	3085	-1282
Brown Lime	3189	-1386
Lansing	3209	-1406
Base Kansas City	3477	-1674
Conglomerate	3505	-1702
Viola	3534	-1731
Simpson Shale	3574	-1771
Simpson Sand	3581	-1778
Arbuckle	3619	-1816
Log total Depth	3700	-1897
Rotary Total Depth	3689	-1886

DST #5 - 3680-3700'. 30-30-30-30. Blow strong to weak. Recovered 2,960' water. ISIP 1249, FSIP 1247, IFP 858-1224, FFP 1221-1224, HSH 1852-1839 psi.

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 1/2"	8 5/8"	20#	296'	50-50	175	POZTIX A. 2% gel
Production	7 7/8"	5 1/2"		3716'	50-50	150	18% salt 75% halad

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	3422-3428	500 gallons 15% Ne	
2	3398-3406	500 gallons 15% NE	
2	3296-3300	500 gallons 15% Ne	
2	3266-3270	500 gallons 15% Ne	

TUBING RECORD	Size	Set At	Packer at	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	2 7/8"	3600'			

Date of First Production	Producing Method
6-5-89	<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (explain).....

Estimated Production Per 24 Hours	Oil	Gas	Water	Gas-Oil Ratio	Gravity
	5 bbl.	200,000 cf	0		
	Bbls	MCF	Bbls	CFPB	

METHOD OF COMPLETION

Production Interval

Disposition of gas: Vented Open Hole Perforation
 Sold Other (Specify) 3422-3428'
 Used on Lease Dually Completed 3398-3406'
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