

15-009-21737
O

WELL COMPLETION REPORT AND
DRILLER'S LOG

API No. 15 — 009 — 21,737
County Number

S. 6 T. 18 R. 12 W
Loc. 100' E/SE NE NW
County Barton

Operator
Arrowhead Petroleum, Inc.

Address
Box 8287, Munger Station Wichita, Kansas 67208

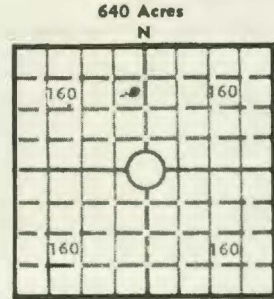
Well No. #2 Lease Name Eveleigh

Well Location
990 feet from (N) line 2,540 feet from (E) (W) line

Principal Contractor Big Springs Drilling Geologist James C. Musgrove

Start Date 10-21-79 Date Completed 10-29-79 Total Depth 3344 P.B.T.D. 3194

Directional Deviation Oil and/or Gas Purchaser Koch



Elev.: Gr. 1809'
DF 1811' KB 1814'

CASING RECORD

Report of all strings set — surface, intermediate, production, etc.

Purpose of string	Size hole drilled	Size casing set (in O.D.)	Weight lbs/ft.	Setting depth	Type cement	Sacks	Type and percent additives
Surface	12 1/4	8 5/8		267'		170	
Prod.	7 7/8	5 1/2		3340'			

LINER RECORD

PERFORATION RECORD

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval
			3	DP jets	3145-3150

TUBING RECORD

Size	Setting depth	Packer set at
2 3/8	3,199.77'	

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
4,000 gal 15% demulsion acid + 2,000 gal 28% acid	OPEN hole
2,500 gal 15% + 1,500 28% acid	3145-3150

INITIAL PRODUCTION

Date of first production 12-4-79 Producing method (flowing, pumping, gas lift, etc.) Pumping

RATE OF PRODUCTION PER 24 HOURS	Oil	Gas	Water	Gas-oil ratio
	50 bbls.	0 MCF	0 bbls.	0 CFPB

Disposition of gas (vented, used on lease or sold) Producing interval(s)

Operator Arrowhead Petroleum DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.:

Well No. # 2 Lease Name EVELEIGH OIL

S 6 T 18 R 12 ^E W

WELL LOG

Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

SHOW GEOLOGICAL MARKERS, LOGS RUN, OR OTHER DESCRIPTIVE INFORMATION.

FORMATION DESCRIPTION, CONTENTS, ETC.	TOP	BOTTOM	NAME	DEPTH
Anhydrite	683			
Howard	2638			
SEVERY	2662			
Topeka	2678			
HEEBNER	2963			
TORONTO	2983			
DOUGLAS	2997			
BROWN LIME	3063			
LANSING	3075			
B.K.C.	3305			
CONGLOMERATE	3314			
ARBUCKLE	3324			

USE ADDITIONAL SHEETS, IF NECESSARY, TO COMPLETE WELL RECORD.

Date Received _____

Signature JW Shelton 2

Title Vice-Pres

Date 12/16/79

6-18-12W

BIG SPRINGS DRILLING, INC.

P.O. BOX 8287
MUNGER STATION
WICHITA, KANSAS 67208

SUITE 29 • 400 NORTH WOODLAWN • (316) 681-1732

November 6, 1979

DRILLERS LOG

Re: Eveleigh No. 2
SE NE NW
Sec. 6- Twp 18s- Rq 12W
Barton County, Kansas

OPERATOR: Arrowhead Petroleum, Inc.
CONTRACTOR: Big Springs Drilling, Inc.
COMMENCED: 10-21-79
COMPLETED: 10-28-79

Surface Pipe: 262' of 8 5/8" w/175 sx Common 2% gel 3% ccl

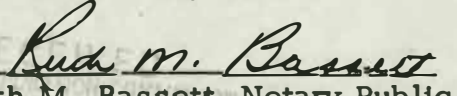
0	262	- Shale, Clay, Sand
262	683	Clay and Shale
683	693	Anhydrite
693	2825	Shale
2825	3344	Lime
3344		RTD

We certify that the above and foregoing is a true and correct copy of the log on the # 2 Eveleigh located in Barton County, Kansas.

BIG SPRINGS DRILLING, INC.


Paul A. Seymour, Jr.

Subscribed and sworn to before me this 6th day of November, 1979.


Ruth M. Bassett Notary Public

My Commission Expires:

May 30, 1983

NOV 07 1979
CONSERVATION DIVISION
Wichita, Kansas

DRILL STEM TEST #1 continued

Pressures: ISIP 954 psi (30")
FSIP 918 psi (30")
IFP 51-22 psi
FFP 29-29 psi
HSH 1520-1505 psi

2928-2948

Limestone, gray, chalky, scattered pin point porosity, few pieces slightly oocastic, scattered oocastic porosity. No shows of oil.

TORONTO SECTION

2988-2993

Limestone, cream, slightly dolomitic, trace of spotty brown stain, no show of free oil or odor in fresh samples.

LANSING SECTION

3081-3086

Limestone, buff, fossiliferous, chalky, scattered fossil-cast porosity, spotty stain, trace of free oil and questionable odor in fresh samples.

3091-3094

Limestone, cream to white, finely crystalline, chalky, no shows of oil.

3111-3114

Limestone, cream, fossiliferous, slightly chalky, increasingly cherty in part, poor visible porosity, trace of spotty, golden brown stain, show of free oil and no odor in fresh samples.

3121-3124

Limestone, gray to cream, chalky, trace of light brown to dark black stain, no show of free oil and no odor in fresh samples.

3129-3132

Limestone, grey to buff, oolitic, fossiliferous, chalky, no shows of oil.

DRILL STEM TEST #2 3085-3132

Open: I.F. 30"
F.F. 30"
Blow: Very weak
Recovery: 40' oil specked mud
Pressures: ISIP 66 psi (30")
FSIP 51 psi (30")
IFP 59-59 psi
FFP 51-51 psi
HSH 1766-1744 psi

3142-3149

Limestone, buff to cream, fossiliferous, good fossil-cast porosity, spotty scattered golden brown to light brown stain and saturation, trace of free oil and faint odor in fresh samples.
PERFORATE 3155-3159

DRILL STEM TEST #3 3134-3149

Open: I.F. 45"
F.F. 45"
Blow: Strong, gas to surface 8"
Gas gauged as follows:
15 min. gauge 13,200 c.f.g.
25 min. gauge 20,600 c.f.g.
35 min. gauge 20,700 c.f.g.
45 min. gauge 19,700 c.f.g.
Second opening:
5 min. gauge 8,840 c.f.g.
15 min. gauge 8,190 c.f.g.
25 min. gauge 6,340 c.f.g.
35 min. gauge 4,740 c.f.g.
45 min. gauge 3,340 c.f.g.
Recovery: 1850' clean gassy oil
Pressures: ISIP 597 psi (45")
FSIP 597 psi (45")
IFP 392-568 psi
FFP 597-597 psi
HSH 1694-1679 psi

3163-3183

Limestone, buff, finely crystalline, oocastic, good oocastic porosity, slightly chalky, no shows of oil. (Barren)

3211-3215

Limestone, buff to tan, finely crystalline, slightly cherty, poor to fair sub-oocastic, dark black stain, trace of free oil and no odor in fresh samples.

3227-3235

Limestone, cream, white, fossiliferous, chalky, scattered brown stain (one piece slight show of free oil) no odor in fresh samples.

DRILL STEM TEST #4 3190-3234

Open: I.F. 30"
F.F. 30"
Blow: Weak 25"
Recovery: 30' mud, few oil spots
Pressures: ISIP 44 psi (45")
FSIP 44 psi (45")
IFP 44-44 psi
FFP 44-44 psi
HSH 1701-1686 psi

3239-3245

Limestone, light gray, oocastic, highly chalky, poor to fair oocastic porosity, spotty black stain and saturation, show of free oil (heavy black) no odor in fresh samples.

DRILL STEM TEST #5 3234-3260

Open: I.F. 20"
F.F. 20"
Blow: Weak
Recovery: 10' mud
Pressures: ISIP 59 psi (20")
FSIP 59 psi (20")
IFP 29-29 psi
FFP 29-29 psi
HSH 1723-1708 psi

3281-3287

Limestone, grey to white, chalky, increasingly cherty, dense. No shows of oil.

CONGLOMERATE SECTION
3314-3324

Chert, beige, red, orange, oolitic, opaque plus traces of white boney chert all in matrix of vari-colored shale. No shows of oil.

ARBUCKLE SECTION
3324-3328

Dolomite, cream to buff, finely crystalline, sucrosic, poor visible porosity, fair stain and saturation, show of free oil and strong odor in fresh samples.

3328-3332

Dolomite, buff, finely crystalline, scattered intercrystalline porosity, good brown stain and saturation, good show of free oil and strong odor in fresh samples.

DRILL STEM TEST #6 3324-3332

Open: I.F. 45"
F.F. 45"
Blow: Weak
Recovery: 50' oil cut mud
Pressures: ISIP 155 psi (45")
FSIP 36 psi (45")
IFP 14-14 psi
FFP 14-14 psi
HSH 1715-1701 psi

3332-3338

Dolomite, as immediately above, good brown stain and saturation, good show of free oil and strong odor in fresh samples.

3338-3344

Dolomite, buff to gray, fine to medium crystalline, scattered intercrystalline porosity, fair stain and saturation, show of free oil and good odor in fresh samples.

6-18-12W

Arrowhead Petroleum, Inc.
Eveleigh #2
100'E SE NE NW, Section 6-18S-12W
Barton County, Kansas
Page 5

DRILL STEM TEST #7 3332-3343

Open: I.F. 45"
F.F. 45"
Blow: Weak
Recovery: 50' oil cut mud
Pressures: ISIP 765 psi (45")
FSIP 332 psi (45")
IFP 22-22 psi
FFP 22-22 psi
HSH 1725-1708 psi

SAMPLE ANALYSIS, SHOWS OF OIL, TESTING DATA, ETC.

6-18-12W

TOPEKA SECTION

2844-2849

Limestone, grey to buff, finely crystalline, slightly dolomitic. No shows of oil.

2854-2861

Limestone as immediately above. No shows of oil.

2887-2894

Limestone, gray, fossiliferous, spotty fossil-cast porosity. No shows of oil.

2910-2917

Limestone, gray to light grey, fossiliferous, oocastic, slightly chalky, fair to good fossil-cast to oocastic porosity, fair brown stain and saturation, trace of free oil, no odor in fresh samples.

DRILL STEM TEST #1 2903-2924

Open: I.F. 30"
F.F. 30"
Blow: Weak 7"
Recovery: 30' mud

DST #1 continued next page