

Computer Inventoried

14-19-29Wnd

ABERCROMBIE RTD, INC.

150 N. MAIN, SUITE 801
WICHITA, KANSAS 67202

EARL SPLITTER #1 (Rig #8)
110' E of NW NW NW
Sec. 14-19S-29W
Lane Co., KS

OPERATOR: Abercrombie Drilling, Inc.
CONTRACTOR: Abercrombie RTD, Inc.

ELEVATION: GL 2819'
KB 2824'

API # 15-101-21,624

- 05-19-92 Start building location this afternoon.
- 05-26-92 7 loads on location, MIRU and spud this afternoon.
- 05-27-92 Spud 3:00 p.m. 5-26-92, cut 260'-12 $\frac{1}{4}$ " hole, deviation $\frac{1}{2}$ ^o. Ran 5 joints of 8 5/8"-20# casing, tally 247.48', set at 255.48'. Cemented with 180 sx of 60-40 posmix, 2% gel 3% cc, by Allied, did circulate. Complete at 9:00 p.m. 5-26-92. Drilled the plug at 5:00 a.m. 5-27-92. 7:00 a.m. drilling at 369', sand & shale. Drilling 3 3/4 hrs, deviation 8 hrs, other 12 $\frac{1}{4}$ hrs. Bit #1 S33SF SN 571148, cut 839'-49 3/4 hrs. Mud weight 9.1, viscosity 47, p/vis 13/28, gels 25/33, water loss 13/6, pH 10.2, chlorides 12,500, solids 4.3, 2% sand. Daily mud 1407.23, accumulative mud 8933.33. Bit weight 35,000#, rot 72-75, 1000# pump, 52 spm.
- 05-28-92 1949' shut down, too wet to get water into location, cut 1580'-24 hrs, sand & shale. Drilling 11 $\frac{1}{2}$ hrs, trip 1 3/4 hrs, other 1 $\frac{1}{2}$ hrs, shut down 9 $\frac{1}{2}$ hrs. Bit #1 S33SF (RT) in at 260', out at 1949', cut 1689'-11 $\frac{1}{2}$ hrs, SN 547784. Mud weight 9.1, viscosity 30, native mud & fresh water. Accumulative mud 239.00, corrected. Deviation 3/4^o-740', 3/4^o-1330', 1^o-1949'. Bit weight 30,000#, rot 100, 950# pump, 58 spm. Pipe strap 1949', board short .62'.
- 05-29-92 Shut down, too muddy.
- 05-30-92 Preparing to start up.
- 05-31-92 2865' drilling, cut 919'-24 hrs, lime & shale. Drilling 18 3/4 hrs, repairs $\frac{1}{2}$ hr, other 5 hrs. Bit #2 S85CF in at 1946', cut 919'-18 3/4 hrs, SN 566684. Mud weight 9.4, viscosity 33. Accumulative mud 239.00, deviation 3/4^o-2505'. Bit weight 35,000#, rot 70, 950# pump, 58 spm.

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- 06-01-92 3497' drilling, cut 632'-24 hrs, lime & shale. Drilling 20½ hrs, other 3½ hrs. Bit #2 S85CF in at 1949', cut 1548'-39¼ hrs, SN 566684. Mud weight 8.5, viscosity 42. Daily mud 2485.00, accumulative mud 2724.00. Deviation 1°-3125'. Bit weight 35,000#, rot 70, 950# pump, 52 spm.
- 06-02-92 4060' drilling, cut 563'-24 hrs, lime & shale. Drilling 22 ¾ hrs, other 1½ hrs. Bit #2 S85CF in at 1949', cut 2111'-62 hrs, SN 566685. Mud weight 9.1, viscosity 45, p/vis 12/17, gels 7/18, water loss 8.8, pH 10.5, chlorides 3,000, solids 2.7, t/sand. Daily mud 698.00, accumulative mud 3422.00. Deviation ¾°-3714'. Bit weight 35,000#, rot 70, 950# pump, 58 spm.
- 06-03-92 4256' coming out with DST #1 (4224'-4256'), cut 196'-24 hrs, lime & shale. Drilling 10½ hrs, daywork 13¼ hrs, other ¼ hr. Bit #2 S85 cut 2307'-72½ hrs. Mud weight 9.2, viscosity 48, p/vis 14/26, gels 9/32, water loss 10, pH 10, chlorides 3,000, solids 6.2, t/sand, 0 LCM. Daily mud 365.00, accumulative mud 3787.00. Deviation 1°-4256'. Bit weight 35,000#, rot 70, 1000# pump, 58 spm. Pipe strap 4256', strap long .46'.
DST #1 4224'-4256' (160' zone)
30-45-60-45
Rec. 250' gassy oil
20' gassy oil cut mud
IFPs 41-52 ISIP 989
FFPs 83-124 FSIP 969
- 06-04-92 4286' coming out with DST #3 (4274'-4286'), cut 30'-24 hrs, lime & shale. Drilling 1½ hrs, daywork 22½ hrs. Bit #2 S85CF in at 1949', cut 2337'-74 hrs, SN 566684. Mud weight 9.3, viscosity 60, p/vis 14/25, gels 9/29, water loss 11.2, pH 9.0, chlorides 3,000, solids 6.8, t/sand. Daily mud 39.00, accumulative mud 3826.00. Bit weight 35,000#, rot 70, 1000# pump, 58 spm.
- Anhydrite 2164' (+660')
Base Anhydrite 2191' (+633')
Heebner 3963' (-1139')
Toronto 3975' (-1151')
Lansing 4006' (-1182')
(Lansing is 8' low to producer
¼ mile N.)
Muncie Creek 4186' (-1362')

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06-04-92 DST #2 4253'-4263' (Upper J. Zone)

30-45-60-45

Rec. 60' gas in pipe
40' slightly gassy heavy oil
350' water

IFPs 31-72 ISIP 959

FFPs 124-197 FSIP 949

DST #3 4274'-4286' (Lower J Zone)

30-30-30-30

Rec. 1' mud w/specks of oil

IFPs 20-20 ISIP 20

FFPs 20-20 FSIP 20

06-05-92 4405' coming out with DST #4 (4368'-4405'), cut
119'-24 hrs, lime & shale. Drilling 8 hrs, daywork
15 hrs, repairs ¼ hr, other ¾ hr. Bit #2 cut
2456'-81½ hrs. Mud weight 9.3, viscosity 54, p/vis
12/31, els 12/39, water loss 12, pH 9.0, chlorides
4,000, solids 6.7, t/sand. Daily mud 0,
accumulative mud 3826.00. Bit weight 35,000#, rot
70, 1000# pump, 56 spm.

DST #4 4368'-4405' (Marmaton)

30-30-30-30

Rec. 70' mud

IFPs 62-62 ISIP 207

FFPs 83-83 FSIP 207

DST #5 4436'-4452' (Marmaton)

30-45-60-45

Rec. 360' gip
200' cl. gsy. oil
60' gsy. ocm
50' gsy oc mdy. wtr.
60' mw

IFPs 20-52 ISIP 499

FFPs 114-155 FSIP 499

Stark Shale 4284' (-1460')
Hushpuckney 4326 (-1502')
BKC 4368' (-1544')
(4' low to producer ¼ mile N)

E. LOG TOPS.

Anhydrite	2161	(+663)
B. Anhydr.	2186	(+638)
Heebner	3959	(-1135)
Toronto	3972	(-1148)
Lansing	4000	(-1176)
Muncie Crk.	4182	(-1358)
Stark	4281	(-1457)
BKC	4363	(-1539)
Pawnee	4482	(-1658)
Ft. Scott	4530	(-1706)
Cher. Shale	4554	(-1730)
Miss.	4620	(-1796)
LTD	4683	(-1859)
DTD	4685	(-1861)

06-06-92 4460' - Drlg. 55' - 24 hrs. Lime & Shale. 5 1/2 Drlg.
17 DW, 1 1/2 Rep. Bit #2 - Cut 2511' 86 1/4 hrs. 9.4
wt., 52 Visc., P/V 14/24, Gels 25/32, 11.3 PH, 3,000
chl. T. S. Daily Mud \$213.42, Accum. Mud \$4,339.42.

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- 06-06-92 Continued
Bit Weight 35,000#, 1000# pump, rot 70, 58 spm.
- 06-07-92 4685' RTD. Circ. 225' - 24 hrs. Lime & Shale, Drlg.
16 1/2, Daywork 6 3/4, Repairs 1/4, 1/2 other.
Bit #2 - cut 2730' 103 1/4 hrs, 9.4 wt. 52 visc.
P/V 14/26, Gels 26/38, 11.2 water loss, PH 11.1,
Chl. 400, 6.2 solids. T.S. Daily Mud 0, Accum.
Mud \$4,339.42, Bit weight 35,000, 1000# pump,
Rot. 70, 58 spm.
- 06-08-92 4685' RTD, 4683' LTD. Cementing Longstring.
114 Jts. 4 1/2" - 10 1/2# casing, 4648.15', set
at 4653.15' bottom. 500 gal. B. J. Mud sw, 75 sxs.
50-50 poz. 2% gel 3/4 of 1% CFR-Z, 7# gil per sx.
200 com. with D-29. 6:45 a.m. 06-08-92. Top stage
240 sxs. B. J. Lite 8:00 a.m. 06-08-92. DV Tool
1401.
- 07-01-92 MIRU. Moved in, rigged up double drum unit. Ran
tubing & bit drilling on D.V. Tool @ 1400'.
- 07-02-92 Drilled D.V. Tool at 1400', ran tubing & bit ,
cleaned out to T.D. of 4621', pressured tested
casing and D.V. Tool, held. Pulled tubing and bit.
Ran Gamma Ray, Correlation collar & bond log from
4621' to 3900'. Had good bond, swabbed hole dry.
Perforated 4441'-4443', 1/2 hour test dry.
- 07-03-92 Hole dry, acidized with 500 gallons 15% MLA.
Maximum pressure 400#, finished at 350#, on vacuum
in 1". Injection rate 1 barrel per minute. Total
load 86 barrels. Swabbed 71.37 barrels swabbing to
4620'. Tested per hour from 4620'.
8.79 barrels total fluid 60% water
7.02 barrels total fluid 32% water
7.02 barrels total fluid 29% water
6.66 barrels total fluid 20% water
- 07-06-92 Fluid level at 3100' gravity 37.4^o corrected. Swab
25.7 barrels total fluid 28% water.

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07-06-92 Testing per hour from 4620'.

11.7 barrels total fluid 65% water
9.3 barrels total fluid 50% water
7.6 barrels total fluid 53% water
9.9 barrels total fluid 52% water
9.3 barrels total fluid 49% water
9.3 barrels total fluid 47% water

Set CIBP @ 4430'. $\frac{1}{2}$ hour test plug held.
Perforated 4 shots per foot 4384'-4388'. Swab
down to 4430'. Tested per hour from 4430':

6.4 barrels total fluid 35% water 1% mud
5.2 barrels total fluid 40% water 1% mud

07-07-92 Fluid level at 3150'. Gravity 26.1 corrected.

5.5 barrels total fluid 35% water 2% mud
5.5 barrels total fluid 39% water 1% mud
5.2 barrels total fluid 47% water
5.5 barrels total fluid 49% water
4.9 barrels total fluid 50% water
4.1 barrels total fluid 55% water

07-08-92 Fluid level at 3300', gravity 35.2 corrected.

Swabbed 18.6 barrels of total fluid 60% water
swabbing down to 4430'. Ran packer and tubing set
at 4401', pressure test plug to 800# and held.
Attempted to release packer. Had to shear packer.
Will pull tubing and acidized down casing
tomorrow.

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- 07-09-92 Ran RTTS packer & tubing to 4340'. Set packer and acidized with 250 gallons MCA, 200# gelled salt plug, 500 gallons, 15% MCA, flushed with 2 barrels salt water. Maximum pressure 1000#, injection rate $\frac{1}{2}$ barrel per minute, broke to 300# when first acid hit, climbed to 750# when plug hit, finished at 700#. Injection rate $2\frac{1}{2}$ barrels per minute, instantaneous shut in pressure 200#, on vacuum in 4 minutes. Total load 44 barrels. Fluid 1000# from surface when started swabbing. Swabbed 47.3 barrels with a trace of oil, swabbing to 4340'. Tested per hour from 4340'.
11.1 barrels water with a trace of oil
12.0 barrels water with a trace of oil
- 07-10-92 Preparing to squeeze perforations. Ran packer & tubing, set at 4408', pressured plug to 2000#, held. Reset packer at 4315'. Pressured annulus to 500#, held. Mixed 200 sx common cement. Squeezed to 2000# w/185 sx in formation, released & repress to 1500, held, job complete at 1:00 p.m. 7-10-92, Pulled tubing & packer, shut well in.
- 07-11-92 Idle.
- 07-12-92 Idle.
- 07-13-92 Shut down due to weather.
- 07-14-92 Ran bit & tubing, drilled hard cement from 4315'-4384', circulated hole clean to CIBP @ 4430'. Pressured squeeze to 800# & held. Pulled tubing & bit, swabbed down to 4200'. Preparing to drill CIBP @ 4430' & check perforations at 4441'-4443'.
- 07-15-92 Fluid level at 4200'. Drilled out CIBP @ 4430' and pushed to top of perforations @ 4441'. Drilled up plug, drilling on hard cement at perforations.

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- 07-16-92 Ran 3 7/8" bit and tubing to 4442', drilled hard cement to 4447'. Washed to total depth of 4621', circulated clean. Pressured to 500# and held, pulling tubing and bit. Swabbed down to 4000', tested ½ hour dry. Perforated 4 shots per foot 4441'-4444'. Swabbed down to 4500', tested ½ hour dry. Reperforated 4441'-4444', swabbed down to 4500' dry. Preparing to acidize.
- 07-17-92 1.4 barrels total fluid 98% water
.9 barrels total fluid 87% water
1.2 barrels total fluid 89% water
.9 barrels total fluid 92% water
2.0 barrels total fluid 87% water
- 07-18-92 Fluid level @ 3275'. Swab 4.9 barrels total fluid 47% water, swabbing down to 4400'. Tested per hour from 3275', swabbing tubing.
2.4 barrels total fluid 86% water
.9 barrels total fluid 87% water
.6 barrels total fluid 88% water
1.7 barrels total fluid 80% water
.9 barrels total fluid 80% water
1.2 barrels total fluid 76% water
- 07-20-92 Shut down due to weather.
- 07-21-92 Fluid level at 3200', swabbed 19.4 barrels total fluid 46% water, swabbing down to 4400'. Acidized with 500 gallons 15% INS. Maximum pressure 200#, finish at 200#, injection rate ½ barrel per minute. Instantaneous shut in pressure 100# on vacuum in 1 minute. Total load 30 barrels, swabbed 23.8 barrels swabbing down to 4400'. Tested per hour through tubing.
2.6 barrels total fluid 76% water
2.9 barrels total fluid 67% water
2.9 barrels total fluid 66% water
3.2 barrels total fluid 61% water
2.9 barrels total fluid 60% water

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07-22-92 Fluid level at 3200'. Swabbed 4.6 barrels of fluid 25% water, swabbing down. Pulled tubing & packer, set CIBP at 4425'. Test plug 1 hour - dry. Load hole with 7 barrels fluid. Perforated 4 shots per foot at 4384'-4388'. Swabbed down to 4425'. Hole dry. Dumped 7 barrels fluid in hole and reperfdrated 4 shots per foot 4384'-4388'. Swabbed down, hole dry.

07-23-92 Hole was dry. Acidized with 250 gallons 15% INS, 2 stage acid to 500#, finish on vacuum. Injection rate $\frac{1}{2}$ barrels per minute. Total load 78 barrels, swabbed 67.2 barrels swabbing down to 4425'. Tested per hour from 4425'.
5.3 barrels total fluid 100% water
2.3 barrels total fluid 100% water
2.0 barrels total fluid 100% water
2.0 barrels total fluid 100% water

07-24-92 Fluid level at 4050'. Swabbed 66 barrels (100% water) swabbing to 4425'. Tested per hour from 4425'.
1st 5.2 barrels total fluid 100% water
2nd 2.4 barrels total fluid 100% water
3rd 1.8 barrels total fluid 100% water
4th 2.4 barrels total fluid 100% water
Set CIBP at 4340'. Dumped 10 barrels water down casing. Perforated 4 shots per foot 4230'-4232' and 4234'-4236'. Swabbed 10 barrels water with no show of oil. Swabbed to 4340', 1 hour test hole was dry.

07-25-92 Acidized with 1000 gallons 15% INS, flushed with oil, maximum pressure 100#, finish at 100# on vacuum instantaneously. Injection rate 1 barrel per minute. Total load 93 barrels. Swabbed 113.4 barrels water with a show of oil, swabbing down to 3250'. Tested per hour from 2500'.
17.5 barrels total fluid 91% water
16.6 barrels total fluid 93% water
15.5 barrels total fluid 95% water
16.4 barrels total fluid 97% water
We have again channeled behind the pipe into water zones below. Will squeeze with cement

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- 07-27-92 Heavy rains made location too muddy to get into with cement trucks.
- 07-28-92 Still waiting on location to dry up.
- 07-29-92 Fluid level at 1195'. Ran tubing & packer, set at 4250', pressured up on packer and plug to 2000# & held. Reset packer at 4160', pressured annulus 500#. Mixed 175 sx of common cement, squeezed to 1800# with 165 sx in formation. Released and repressured to 1500#, pulled tubing and packer. Job complete at 1:15 p.m. 7-29-92.
- 07-30-92 Waiting on cement.
- 08-01-92 Ran bit & tubing, drilled firm cement 4160'-4236'. Circulated hole clean, pressured squeeze to 800# & it held. Pulled tubing and bit, swabbed down to 4200'.
- 08-02-92 Fluid level at 4200'. Drilled CIBP at 4340', pushed to 4425'. Swabbed down to 4425'. Tested per hour from 4425'.
4.7 barrels total fluid 100% water
2.9 barrels total fluid 100% water
2.0 barrels total fluid 100% water
2.6 barrels total fluid 100% water
- 08-03-92 Idle.
- 08-04-92 Fluid level at 3920', no oil. Set CIBP @ 4320', perforated 4 shots per foot 4230'-4232' & 4234'-4236'. Swabbed down, 1 hour test dry. Dumped 7 barrels water odwn cssing, reperforate 4 shots per foot 4230'-4232' & 4234'-4236'. Swabbed down to 4320', 1 hour test hole was dry. Acidized with 250 gallons 15% INS, well was pressure bound at 1000#. Shut in overnight with 1000# pressure on well.

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- 08-05-92 This morning casing pressure at 600#. Repressured to 1000#, slow break to 0#, finish at 50# with $\frac{1}{2}$ barrels per minute injection rate. Instantaneous shut in pressure on vacuum. Total load 75 barrels. Swabbed 96.8 barrels swabbing down to 4000'. Tested per hour from 3250'.
16.1 barrels water
From 2500' 15.0 barrels water
Shut well in preparing to squeeze.
- 08-06-92 Fluid level at 1875'. Ran tubing & packer, set at 4250'. Pressured to 2500# and held. Reset packer at 4160'. Pressured annulus to 500#. Mixed 200 sx common cement 2% gel. Squeezed to 2200# with 185 sx in formation. Circulated clean, repressured to 1500# and held for 1 hour. Job complete at 2:30 p.m. 8-6-92. Lay down tubing & packer.
- 08-07-92 Ran tubing with bit, drilled soft cement from 4160'-4210', circulated hole clean, shut down, wait on cement.
- 08-08-92 Idle.
- 08-09-92 Idle.
- 08-10-92 Drilled firm cement from 4210' to 4238', washed & cleaned out to PBD @ 4320'. Pressured squeeze to 800# & held. Pulled tubing & bit, swabbed down to 3500'. Drilled out CIBP @ 4320', pushed to 4425'. Drilled on CIBP @ 4425'. Sand line drill broke. Shut down for repairs and weather.
- 08-11-92 Idle.
- 08-12-92 Waiting on weather.

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08-13-92 Ran magnet on sand line, picked up retainer wafer ring from top of fish @ 4400'. Ran fishing spear bumper sub and tubing, attempt to fish sand line drill, failed. Pulled tubing and tools, changed out grapple in spear, ran tools and tubing retrieved fish, lay down tubing & tools and sand line drill. Pumped water from around location. Still too wet to get trucks in or vehicles. Shut down until Monday.

08-14-92 Idle - heavy rains made location impassable.

08-15-92 Idle.

08-16-92 Idle.

08-17-92 Drilled and cleaned out and pushed CIBP to 4620' T.D.. Ran tubing and set at 4620'. Started in with pump and rods.

08-18-92 Finished running rods and tear down tools. We will set pumping unit and pump test the lower two sets of perforations.