

AGATE PETROLEUM, INC.
OPERATING REPORT

LUNIER 1-14 - W. Coats 87-2 - NE/4 SW/4 NW/4 Section 14-29S-14W - Pratt Co. KS
4700' - Arbuckle - Agate Petroleum, Inc.

6-16-87

Staked Location:

3580' FSL & 4230' FEL
Section 14-29S-14W
Pratt County, Kansas

6-23-87

Made location, dug pits & drilled water well.

6-24-87

WORT.

6-25-87

WORT - Rain, will not MIRT today.

6-26-87

WORT & waiting on location to dry (moving in today).

Elevations: G.L. 1984'
K.B. 1992'

6-27-87

Day 1

Depth 977'

Operation: WOC

Mud: Water

Bit #1 - 12-1/4" S-3RR in @ 0', out @ 460', made 460'/2-1/4 hrs.

Bit #2 - 12-1/4" S-3RR in @ 460', out @ 977', made 517'/5-3/4 hrs.

Pump 6" x 14", 60 SPM - 700#

Deviations 1° @ 460'

1° @ 977'

TIME: MIRT'S & RURT w/Dozer - Duke Drlg. Co.

Rig #2 6-1/4 hrs.

Drilling 8 hrs.

Trips 2 hrs.

Service Rig & Connections 2-1/2 hrs.

Circulating 1/4 hr.

Deviations 1/4 hr.

Repairs 1/4 hr.

Run & Cement Casing & WOC 4-1/2 hrs.

Ran 7 jts. 8-5/8", 20#, ST&C Pipe. Set @ 322' K.B.

Cement w/225 sx 60-40 Pozmix, plus 3% C.C. plus 2% Gel.

Good returns. Plug down @ 3:45 A. M.

6-28-87

Day 2

Depth 2217'

Operation: Drilling in Sh, made 1240'/14-1/4 hrs.

Mud: Water

Bit #3: 7-7/8" S-3R.T. in @ 977', out @ 2020', made 1043'/8-3/4 hrs.

WOB - 40,000# - 110 RPM.

Bit #4: 7-7/8" S-84F in @ 2020', made 197'/5-1/2 hrs.

WOB 40,000# - 65 RPM

Pump 6" x 14" - 60 SPM - 700#

Deivations: 1-1/4° @ 1503'

1-1/4° @ 2020'

TIME: Drilling

14-1/4 hrs.

Trip

3 hrs.

Ser. & Conn.

1-1/4 hrs.

Deviations

1/2 hr.

Repair Rig

1/4 hr.

WOC

4-3/4 hrs.

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Day 3
Depth 3135'
Operation: Drlg. Shale & Lm., made 1,018'/20 hrs.
Mud: Solid - Native
Bit #4 - 7 7/8" - S-84F, Serial Number 473110 in @ 2,020',
made 1115'/25 1/4 hrs. - 44'/hr. average.
EW 400 Pump 6" x 14" - 60 SPM - 700#
Time: Drilling 20 hrs.
Service Rig & Conn. 2 hrs.
Deviation 1 1/2 hrs.
Repairs 1 1/2 hrs.
Deviation: 1 1/4° @ 2653'

Sample Tops

Permian

Anhydrite	807 (+1185)
Herrington (Chase)	2205 (- 213)
Towanda	2327 (- 335)
Cottonwood	2709 (- 717)
Red Eagle	2847 (- 815)w/7 unit gas kick
Onaga	2977 (- 985)

Pennsylvanian

Wabaunse	3016 (-1024)
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6-30-87

Day 4
Depth 3791'
Operation: Drilling in Lm & Sh, made 656'/20 hrs.

Mud: Wt. 9.1, Vis 44, WL 15, Cl- 6000, Solids 2.5, 2# LCM.
Bit #4: 7-7/8" S-84F in @ 2020', made 1771'/45 hrs., Avg. 39'/hr.
WOB: 40,000# - 65 RPM
Pump: EW 400 - 6" x 14" - 60 SPM - 700#

Deviation: 3149' - 2°
3655' - 1°

TIME: 20 hrs. Drilling
1/4 hr. Ser. & Conn.
1 hr. Deviation
1/4 hr. Repairs
1-1/2 hrs. Jet & Displace Mud

7-1-87

Day 5
Depth 4274'
Operation: Drilling in Lime, made 483'/20-1/4 Hrs., 24'/hr.

Mud: Wt. 9.6, Vis. 43, W.L. 12.4, Cl- 8000, LCM 2#.
Bit #4: 7-7/8" S-84F in at 2020', made 2254'/65-1/4 hrs.
WOB: 40,000# x 60 RPM.
Pump Pressure: 700# x 60 SPM.

Deviation: 1-1/4° @ 4203'

TIME: Drilling 20-1/4 hrs.
Ser. & Conn. 1 hr.
Cir. for Sples. 2-1/4 hrs.
Deviation 1/2 hr.

SAMPLE TOPS

Formation

Howard	3335' (-1343')
Topeka	3462' (-1470')
Heebner	3821' (-1829')
Brown Lime	3992' (-2000')
Lansing	4008' (-2016')
"B" Zone Cir.	4064' 22 Units Gas, 10 Units Background Ls. wht. Xln. Porosity.
K Zone	4266'
Stark Shale (R/A)	4262' (-2270')
	7' Low to Lee #1-11, NW NW SE Section 11.

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7-2-87

Day 6

Depth 4571'

Operation: Testing - DST #1 - 4530' to 4571' - Simpson
Drilling, made 297'/13-3/4 hrs.

Mud: Wt. 9.3, Vis 44, W.L. 12.2, Cl⁻ 10,000, Tr. - LCM.
Bit #4: 7-7/8" S-84F, in at 2020', made 2551'/79 hrs., 32.2'/hr.

Deviation: 3/4° @ 4571'

TIME: Drilling	13-3/4 hrs.
Tripping	4-1/4 hrs.
Ser. & Conn.	1 hr.
Deviation	1/4 hr.
Cir.	4-3/4 hrs.

7-3-87

Day 7

Depth 4632'

Operation: Drilling in Sand, made 61'/3 hrs., 25'/hr.

Mud: Wt. 9.4, Vis. 43, W.L. 12.5, Cl⁻ 10,000
Bit #4: 7-7/8" S-84F in @ 2020', out @ 4571', made 2551'/79 hrs.
Bit #5: 7-7/8" S-84 in at 4571', made 61'/3 hrs.
WOB: 40,000# - 78 RPM

Pump 60 SPM x 675 psig.

Deviation: 1/2° @ 4571'

TIME: Drilling	3 hrs.
Circulating, Trips & DST	21 hrs.

DST #1-Simpson 4530' to 4571' (41')

ISIP 2427 psi
IFP 88 psi/30 min. weak blow, died in 10 min.
ISIP 126 psi/30 min.
FFP 88 psi/30 min. No blow
FSIP 97 psi/60 min.
Recovered 20' Drilling Mud w/very few black oil specks.

DST #2-Simpson 4568' to 4580' (12')

IHSP 2400 psi
IFP 44-55 psi/30 min. weak blow, increased to 1-1/2" water.
ISIP 972 psi/30 min.
FFP 66-88 psi/45 min. surface blew 12 min. after open,
increased to 1/2" water.
FSIP 994 psi/60 min.
Recovered 110' muddy water, Bottom 40' was salt water
Cl⁻ 32,000 ppm.

7-4-87

Day 8

Depth 4720' T.D.

Operation: P & A @ 7:00 A. M. 7-4-87

Mud: (@4668') Wt. 9.4, Vis. 45, W.L. 12.4, pH 9.0, Cl⁻ 20,000,
CMC: \$3563
Bit #5: 7-7/8" S-84 in @ 4571', made 149'/8-3/4 hrs.
Pump Pressure: 60 SPM & 700 psig.

14-295-14W

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7-4-87

Continued

TIME: Drilling	5-3/4 hrs.
Trip	3-1/4 hrs.
Circulating	1 hr.
Logging	7-1/4 hrs.
Ran Welex DIL (S.P. Tool didn't work), Density/Neutron & Micro Logs to 4723'.	
Laying down Drill Pipe	4-1/2 hrs.
Plugging	2-1/2 hrs.

PLUGS

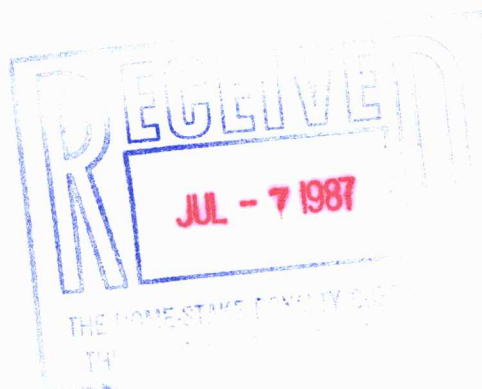
DEPTH

50 Sx 60-40 Poz + 6% Gel	830'
50 Sx	350'
10 SX	40'
<u>15 Sx</u>	Rat Hole

125 Sx

15 Sx in Water Well.

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Continued

TIME: Drilling	5-3/4 hrs.
Trip	3-1/4 hrs.
Circulating	1 hr.
Logging	7-1/4 hrs.
Ran Welex DIL (S.P. Tool didn't work), Density/Neutron & Micro Logs to 4723'.	
Laying down Drill Pipe	4-1/2 hrs.
Plugging	2-1/2 hrs.

PLUGS

DEPTH

50 Sx 60-40 Poz + 6% Gel	830'
50 Sx	350'
10 SX	40'
15 Sx	Rat Hole

125 Sx

15 Sx in Water Well.

7-6-87

Cut 8-5/8" Surface csg. off 5' below G.L.

FINAL REPORT.

OWLL

