

WELL REPORT

KANOPOLIS FEDERAL #2-28

NE NE NE

280' FNL, 560' FEL SEC; 28-TS 16S - RG 7 WEST  
ELLSWORTH COUNTY, KANSAS

ELEVATION: 1,585' G. L., 1,595' K. B.

A.P.I. NUMBER 15-053-21184-0000

WELL SITE SUPERVISION: JAMES R. HALL

**CONTRACTOR:** Summit Drilling Company, Inc.

Drilling Pipe: 4.5", Drilling Collars: 6.25" and 7 7/8" Drilling Bit (from base of surface casing to RTD).

**SPUD DATE:** The rig moved on location and spud 08/01/06.

**CASING:**

SURFACE: 8 5/8" Set at 244' (K.B.), cemented with 200 sxs of common cement, cement did circulate to surface.

**PRODUCTION:** Unknown.

**OPEN HOLE LOGS:** Log Tech; Dual Induction, Dual Compensated Porosity Log.

**DRILLING TIME:** 1' Drilling time from 800' to 1,940' (RTD).

**SUPERVISION:** 800' to 1,940' (RTD).

**SAMPLES:** 10' wet and dry samples were examined from 800' to 1,940' (RTD).

Samples were examined wet & dry under Corvascope with black light: Dry samples were delivered to Kansas Well Sample Library in Wichita, Kansas.

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**DEVIATION SURVEYS:** See attached Well Reports.

**STRATIGRAPHIC MARKERS & STRUCTURAL POSITION:** See attached Well Reference Sheet.

**DRILLING FLUID RECORD:** See attached Well Reports.

**BIT RECORD:** See attached Well Reports.

**RIG ACTIVITY DURING WELL SIGHT SUPERVISION:** See attached Well Reports.

**DST'S WERE RUN BY TRILOBITE TESTING, INC. TESTER:** Hays Kansas Office). See attached Well Reports.

**STRATIGRAPHY & LITHOLOGY** (Zones of Interest, Sample Depths and Geologic Strip Log Data was used).

**Winfield:** 1,030' to 1,052'; Dolomite: most gray, occasionally buff, sucrosic, to very fine crystalline, trace rhombic dolomite, with visible porosity, no stain in dry sample, no show, one piece with light brown oil, no odor, instant yellow fluorescent cut. Largest percentage of interval had to porosity and no show.

**Towanda:** 1,102' to 1,132'; Limestone: wackestone, to occasionally packstone, buff to tan, fossiliferous, hard to firm, some soft, some mottled, most dull, more fossiliferous with depth, dull mineral fluorescence, no cut, no odor, visible vuggy to intercrystalline porosity, no stain on dry samples. Chert: trace free white sharp.

**Funston:** 1,316' to 1,324'; Limestone: most mudstone, gray to buff, occasionally white, trace fossiliferous to oolitic packstone, no show on pinpoint & vuggy porosity, barren porosity in the dry sample.

**Grand Haven:** 1,778' to 1,796'; Sandstone: light gray, ultra fine grained to very fine grained, consolidated to poorly consolidated, well sorted, sub rounded, micaceous, trace of glauconite, no sample show, no odor, no free sand in sample tray, calcite cement. This zone tested gas to surface (see attached Drilling Reports for DST information).

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JIM HALL WELL SITE SUPERVISOR  
P O BOX 66 VALLEY CENTER, KANSAS 67147-0066  
RIG PHONE: 620-344-1464 CELL PHONE: 316-217-1223

DAILY DRILLING REPORT

REPORT TIME: 7:00 EST. COMPANY TIME LAST 24 HRS.: 0  
SPUD: 08/01/06 REPORT DATE: 08/04/06 TOTAL DAYS: 3  
OPERATOR: Rupe Oil Company, Inc.  
WELL NAME: Kanopolis Federal 2-28  
DRILLING CONTRACTOR & RIG: Summit Drilling Company  
PRIOR REPORT DEPTH: 261  
REPORT DEPTH: 995 STATUS: Drilling Ahead  
FORMATION: Herington  
FOOTAGE LAST 24HRS.: 734 PEN-RATE / LAST 24 HRS.: 31  
BIT#/SIZE TOT.HRS: TYPE: WOB: RPM: IN: OUT: FT.CUT:  
#1 / 12.25 0 261 261  
#2 / 7 7/8 17.25 Varel CH20 20 261 995 734  
0  
0

DEV.: DEPTH: PUMP#: LINER: STROKE: SPM: PRESSURE:  
3/4 deg. 261 1 65-70 400  
3/4 deg. 856

MUD CHECK @: 1,005 WT: 10.1 VIS: 35 P. VIS: 6  
YP: 12 GEL.: 10-12 PH: 7 FILTRATE: N/A  
CHL/PPM: 108,000 CAL.: HVY OIL: LCM#/bbl 0  
DAILY COST: \$849.55 PRIOR COST: \$512.00 CUM. COST: \$1,361.55

MUD TYPE: FROM: TO:  
Native Mud Surface 800  
Native Mud / Gel 800

REMARKS: (DSTS, CORES, LOGS, PROBLEMS, ETC.)

Drilled to 261' with 12 1/4" bit, Ran 232' 8 5/8" csg, set at 244' KB. Cmt with 200 sx cement, did circulate to surface. Wait on cement to cure, then trip in hole with 7 7/8" bit, drilled out shoe and cement, then drilled ahead. At report time drilling ahead, with no sample or gas shows.

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P O BOX 66 VALLEY CENTER, KANSAS 67147-0066  
RIG PHONE: 620-344-1464 CELL PHONE: 316-217-1223

DAILY DRILLING REPORT

REPORT TIME: 7:00 EST. COMPANY TIME LAST 24 HRS.: 2.25  
SPUD: 08/01/06 REPORT DATE: 08/05/06 TOTAL DAYS: 4  
OPERATOR: Rupe Oil Company, Inc.  
WELL NAME: Kanopolis Federal 2-28  
DRILLING CONTRACTOR & RIG: Summit Drilling Company  
PRIOR REPORT DEPTH: 995  
REPORT DEPTH: 1,544 STATUS: Displace Mud System With Chem / Gel  
FORMATION: Neva Limestone  
FOOTAGE LAST 24HRS.: 549 PEN-RATE / LAST 24 HRS.: 23  
BIT#/SIZE TOT.HRS: TYPE: WOB: RPM: IN: OUT: FT.CUT:  
#1 / 12.25 0 261 261  
#2 / 7 7/8 36.75 Varel CH20 18-20 65-70 261 1,544 1,283  
0  
0

DEV.:	DEPTH:	PUMP#:	LINER:	STROKE:	SPM:	PRESSURE:
3/4 deg.	261	1	6	14	53	425
3/4 deg.	856					

MUD CHECK @:	1,544	WT:	8.8	VIS:	69	P. VIS:	15
YP:	23	GEL.:	22-41	PH:	12	FILTRATE:	8
CHL/PPM:	2,000	CAL.:	40	OIL:		LCM#/bbl	0
DAILY COST:	\$2,537.91	PRIOR COST:	\$1,361.55	CUM. COST:			\$3,899.46

MUD TYPE:	FROM:	TO:
Native Mud	Surface	800
Native Mud / Gel	800	

REMARKS: (DSTS, CORES, LOGS, PROBLEMS, ETC.)

At 1,544', stoped drilling and displaced the mud system with a chemical gel, mud.

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P O BOX 66 VALLEY CENTER, KANSAS 67147-0066  
RIG PHONE: 620-344-1464 CELL PHONE: 316-217-1223

DAILY DRILLING REPORT

REPORT TIME: 7:00 EST. COMPANY TIME LAST 24 HRS.: 10.5  
SPUD: 08/01/06 REPORT DATE: 08/06/06 TOTAL DAYS: 5  
OPERATOR: Rupe Oil Company, Inc.  
WELL NAME: Kanopolis Federal 2-28  
DRILLING CONTRACTOR & RIG: Summit Drilling Company  
PRIOR REPORT DEPTH: 1,544  
REPORT DEPTH: 1,817 STATUS: DST #1  
FORMATION: Grand Haven  
FOOTAGE LAST 24HRS.: 273 PEN-RATE / LAST 24 HRS.: 11  
BIT#/SIZE TOT.HRS: TYPE: WOB: RPM: IN: OUT: FT.CUT:  
#1 / 12.25 0 261 261  
#2 / 7 7/8 46.25 Varel CH20 18-20 65-70 261 1,817 1,556  
0  
0

DEV.:	DEPTH:	PUMP#:	LINER:	STROKE:	SPM:	PRESSURE:
3/4 deg.	261	1	6	14	53	425
3/4 deg.	856					
1 deg.	1,817					

MUD CHECK @:	1,544	WT:	8.8	VIS:	69	P. VIS:	15
YP:	23	GEL.:	22-41	PH:	12	FILTRATE:	8
CHL/PPM:	2,000	CAL.:	40	OIL:		LCM#/bbl	0
DAILY COST:	\$2,537.91	PRIOR COST:	\$1,361.55	CUM. COST:	\$3,899.46		

MUD TYPE:	FROM:	TO:
Native Mud	Surface	800
Native Mud / Gel	800	1,544
Chem. / Gel	1,544	

REMARKS: (DSTS, CORES, LOGS, PROBLEMS, ETC.)

At 1,544', stoped drilling and displaced the mud system with a chemical gel, mud. Ran survey and strap pipe prior to DST #1. Pipe strap is 3.5 feet long to the board (we are deeper bay 3.5'), and the survey was 1 deg. At report time DST #1 (Grand Haven) 1,779-1,817 (38' anchor).

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JIM HALL WELL SITE SUPERVISOR  
P O BOX 66 VALLEY CENTER, KANSAS 67147-0066  
RIG PHONE: 620-344-1464 CELL PHONE: 316-217-1223

DAILY DRILLING REPORT

REPORT TIME: 6:30 EST. COMPANY TIME LAST 24 HRS.:  
SPUD: 08/01/06 REPORT DATE: 08/07/06 TOTAL DAYS: 6  
OPERATOR: Rupe Oil Company, Inc.  
WELL NAME: Kanopolis Federal 2-28  
DRILLING CONTRACTOR & RIG: Summit Drilling Company  
PRIOR REPORT DEPTH: 1,817  
REPORT DEPTH: 1,924 STATUS: Open Hole Logs/Run 4 1/2" Production Casing  
FORMATION: Elmont  
FOOTAGE LAST 24HRS.: 107 PEN-RATE / LAST 24 HRS.: 4  
BIT#/SIZE TOT.HRS: TYPE: WOB: RPM: IN: OUT: FT.CUT:  
#1 / 12.25 0 261 261  
#2 / 7 7/8 49.25 Varel CH20 18-20 65-70 261 1,924 1,663  
0  
0

DEV.:	DEPTH:	PUMP#:	LINER:	STROKE:	SPM:	PRESSURE:
3/4 deg.	261	1	6	14	53	425
3/4 deg.	856					
1 deg.	1,817					
1 deg.	1,940					
MUD CHECK @:	1,817	WT:	8.8	VIS:	43	P. VIS: 9
YP: 6	GEL.: 8-20	PH:	11.5	FILTRATE:		10.4
CHL/PPM:	4,500	CAL.: 60	OIL:	LCM#/bbl		0
DAILY COST:	\$0.00	PRIOR COST:	\$3,899.46	CUM. COST:		\$3,899.46

MUD TYPE:	FROM:	TO:
Native Mud	Surface	800
Native Mud / Gel	800	1,544
Chem. / Gel	1,544	1,924

REMARKS: (DSTS, CORES, LOGS, PROBLEMS, ETC.)

Ran survey and strap pipe prior to DST #1. Pipe strap is 3.5 feet long to the board (we are deeper by 3.5'), and the survey was 1 deg. DST #1 (Grand Haven) 1,779-1,817 (38' anchor). Times 30-45-90-90; IH 880, IF 30-16 (strong blow in 27 min), ISI 502, FF 31-34 (string blow in 1 Sec., GTS in 13 min. TSTM on 1/4" choke, in 50" changed to 1/8" choke 6.5 mcf, 60" 7.4 mcf, 70" 10 mcf, 80 min 12.1 mcf, 90 min 14.3 mcf), FSI 497, FH 822, Recovered; 1721' GIP, 31' GCM (10% gas, 90% mud), BHT 84 deg. F. No depth correction was made to the geograph or strip log after the strap. At 24:00 hrs. August 6th, 2006, RTD was reached (Drillers Total Depth 1,940'). The hole was conditioned prior to trip out of the hole to run open hole logs (Log Tech / Hays Kansas). Ran open hole logs and at report time making ready to run production casing.

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**WELL SITE OPERATIONS / JIM HALL SUPERVISOR**

**OPERATOR:** Rupe Oil Company, Inc.  
**WELL REFERENCE SHEET** **SUBJECT WELL:** Kanopolis Federal 2-28  
**SUBJECT WELL LOCATION:** NE NE NE Sec. 28, Twp 16S, Rge 7W, Ellsworth Co.  
**SUBJECT WELL DATUM:** 1,595

**REF. WELL 'A'** Rupe Reed 1-27 Sec. 27-T16S-R7W **DATUM:** 1,606

**REF. WELL 'B'** Rupe Bettenbrock 1-28 Sec.28-T16S-R7W **DATUM:** 1,545

<b>SUBJECT WELL:</b>	<b>WELL 'A'</b>				<b>WELL 'B'</b>			
<b>ZONE</b>	<b>DEPTH</b>	<b>DATUM</b>	<b>DEPTH</b>	<b>DATUM</b>	<b>REF.</b>	<b>DEPTH</b>	<b>DATUM</b>	<b>REF.</b>
Herington	988	607	1,001	605		2	931	614 -7
Winfield	1,030	565	1,050	556		9	978	567 -2
Towanda	1,102	493	1,119	487		6	1,048	497 -4
B/Flor.Por	1,218	377	1,238	368		9	1,166	379 -2
Funston	1,316	279	1,335	271		8	1,263	282 -3
Neva	1,481	114	1,499	107		7	1,430	115 -1
Red Eagle	1,565	30	1,584	22		8	1,512	33 -3
Asp.Wall	1,701	-106	1,718	-112		6	1,646	-101 -5
G. Haven	1,778	-183	1,794	-188		5	1,721	-176 -7
Tarkio	1,867	-272	1,885	-279		7	1,809	-264 -8
Elmont	1,924	-329					1,867	-322 -7

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