

CONSULTING GEOLOGIST  
Geologist's Report  
Drilling Time and Sample Log

**OPERATOR**  
 Chieftain Oil Co., Inc.  
 WELL NO. #1  
 LEASE Rank  
 FIELD Stramathan Ext. API No. 15-007-29956

**LOCATION**  
 NE 5/8 SW 34/8 & 34/8 E 1/4  
 SEC. 10 TWP. 35S RANGE 11W  
 COUNTY Barber STATE Kansas

**COMMENTS**  
 Fossil #12  
 10/21/2012  
 10/16/2012  
 10/14/2012  
 10/13/2012  
 10/12/2012  
 10/11/2012  
 10/10/2012

**GL** 1337'  
**Measurements** Are All  
**From** CASING RECORD  
**SURFACE** RAB 8 JTS 1.38"  
**PRODUCTION** RAB 130 JTS 6"  
**5 1/2 15.5'** @ 5445 W. 2235X  
**ELECTRICAL SURVEYS**  
**DIL. MEL.**  
**CNL/COL**

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### GEOLOGIST

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### OPERATOR

Company: Chieftain Oil Co., Inc.  
 Address: P.O. Box 124  
 Kiowa, Kansas 67070

### Daily Status

10/10/2012: Morning depth: move from Chieftain #2 and Spud Roark #1 @ 3:15 P.M.  
 10/11/2012: Morning depth: 345' drilled 345', run 8 joints of 13 3/8" surface casing, plug down @ 4:30 A.M.  
 10/12/2012: Morning depth: 1605', drilled ' survey @ 2081 1/2 deg  
 10/13/2012: Morning depth: 2556', drilled ' survey @ 4172, 1 3/4 deg.  
 10/14/2012: Morning depth: 3221', drilled ' work on draw works motor, Survey @ 4172, 1 3/4 deg.  
 10/15/2012: Morning depth: 3790', drilled ' survey @ 4172, 1 3/4 deg.  
 10/16/2012: Morning depth: 4152', drilled ' Survey @ 4172, 1 3/4 deg.  
 10/17/2012: Morning depth: 4438', drilled 286' survey @ 4457 1 3/4 deg  
 10/18/2012: Morning depth: 4700', drilled 262'  
 10/19/2012: Morning depth: 5012', drilled 312'  
 10/20/2012: Morning depth: 5285', drilled 253'  
 10/21/2012: Morning depth: 5425', drilled 161' bit trip @ 5410, survey 3/4 deg, pipe strap 2.65 long to the board, RTD @ 5:01 P.M., rund 130 JTS of 5 1/2 csg, cement with 25 ft sx.

### Contractor

Fossile Drilling Rig #2  
 P.O. Box 464  
 Pratt, KS 67124-0464

**ACCESSORIES**

Pisolite	Ferrpel	Sand	Lms
Plant	Ferr	Sidy	Sandylms
Wichita	Gyp	STRINGER	Sh
Fuss	Hvymin	Arg	Sitstn
Oomold	Kaol	Bent	TEXTURE
	Mari	Coal	Boundst
	Mixnl	Dol	Chalky
	Nodule	Gyp	Cyxln
	Phos	Ls	Earthy
	Pyr	Mrst	Finexln
	Salt	Sitstrg	Grainst
	Sandy	Ssstrg	Lithogr
	Silt	Carbsb	Microxln
	Sil	Clystrn	Mudst
	Sulphur	Dol	Packet
	Tuff	Grysh	Wackest
	Chlorite	Gryslt	
	Dol		

**OTHER SYMBOLS**

Fracture	Carb shale	Brown lmst	ROUNDING
Inter	Gray shale	Brown shale	Rounded
Moldic	Sandy lmst	Brown dol	Subang
Organic	Shale	Brown cream	Angular
Strop	Silt stn	D. green lmst	OIL SHOWS
Uggy	Shaly slst	Light cream lmst	Even
	Silty shale	Gray cream lmst	Spotted
	Blank	Green dol	Quest
	Gray lmst	Gray dol	Dead
	Cream lmst	Well	Gas show
	Blue-green siltstn	SORTING	
	D. blue-green shale	Poor	
	Green shale		

**LITHOLOGY**

Anhy	Carb shale	Silty shale	D. green shale	D. green lmst
Arg	Gray shale	Blank	Green shale	Light cream lmst
Bent	Sandy shale	Gray lmst	Brown lmst	Gray cream lmst
Bit	Shale	Red shale	Brown shale	Green dol
Brchfrag	Sit stn	Blue-green siltstn	Brown dol	Gray dol
Calc	Shy	Green shale	Brown cream	
Carb	Shaly slst			
Chck				
Dol				
Chrt				
Pelec				
Pelet				

**INTERVALS**

**EVENTS**

**POROSITY TYPE**

**ROCK TYPES**

