

CONSULTING GEOLOGIST

Geologist's Report
Drilling Time and Sample Log

APPRAISER: Chieftain Oil Co., Inc.
ELEVATION: 1367'

LEASE: Bluffs AWD
WELL NO.: #1
DF: 1366'

FIELD: Standard
API No.: 15-007-24177
CL: 1355'

LOCATION: NE 3/4 NW 34
Measurements: Age All
From: K8

SEC: 25
TWP: 34S
RGE: 11W
COUNTY: Barber
STATE: Kansas
CASING RECORD

CONTRACTOR: Fessell Rig #3
SURFACE: Bm 13.318.018.313.303503X
Bm 8.518 @ 1029' W/40' SX

COMER: 62822
COUNTY: Barber
STATE: Kansas
PRODUCTION: Bm 5.172'

SWARTZ: SW 1/4 NW 34
36.00' to 55.98'

SWARTZ TIME BERT: NW 34
36.00' to 55.98'

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OPERATOR
Company: Chieftain Oil Co., Inc.
Address: 605 S. 6th, P.O. Box 124
Kiowa, Kansas 67070

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

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| <ul style="list-style-type: none"> <input type="checkbox"/> Fossil <input type="checkbox"/> Algae <input type="checkbox"/> Amph <input type="checkbox"/> Strom <input type="checkbox"/> Belm <input type="checkbox"/> Bioclst <input type="checkbox"/> Brach <input type="checkbox"/> Bryozoa <input type="checkbox"/> Cephal <input type="checkbox"/> Coral <input type="checkbox"/> Crin <input type="checkbox"/> Echin <input type="checkbox"/> Fish <input type="checkbox"/> Foram <input type="checkbox"/> Fossil <input type="checkbox"/> Gastro <input type="checkbox"/> Oolite <input type="checkbox"/> Ostra <input type="checkbox"/> Peltec <input type="checkbox"/> Pellet | <ul style="list-style-type: none"> <input type="checkbox"/> Pisolite <input type="checkbox"/> Miter <input type="checkbox"/> Mardol <input type="checkbox"/> Bm <input type="checkbox"/> Upper Simpson <input type="checkbox"/> Armitage <input type="checkbox"/> TD | <ul style="list-style-type: none"> <input type="checkbox"/> Ferrpel <input type="checkbox"/> Gyp <input type="checkbox"/> Hvymn <input type="checkbox"/> Kaol <input type="checkbox"/> Marl <input type="checkbox"/> Minxl <input type="checkbox"/> Nodule <input type="checkbox"/> Phos <input type="checkbox"/> Pyr <input type="checkbox"/> Sait <input type="checkbox"/> Sandy <input type="checkbox"/> Silt <input type="checkbox"/> Silt <input type="checkbox"/> Sulphur <input type="checkbox"/> Tuff <input type="checkbox"/> Chlorite <input type="checkbox"/> Dol | <ul style="list-style-type: none"> <input type="checkbox"/> Sand <input type="checkbox"/> Sand | <ul style="list-style-type: none"> <input type="checkbox"/> STRINGER <input type="checkbox"/> Anhy <input type="checkbox"/> Arg <input type="checkbox"/> Bent <input type="checkbox"/> Coal <input type="checkbox"/> Dol <input type="checkbox"/> Gyp <input type="checkbox"/> Ls <input type="checkbox"/> Mst <input type="checkbox"/> Ssstrg <input type="checkbox"/> Carsh <input type="checkbox"/> Dol <input type="checkbox"/> Clystn <input type="checkbox"/> Crystl | <ul style="list-style-type: none"> <input type="checkbox"/> Lms <input type="checkbox"/> Sandylms <input type="checkbox"/> Sh <input type="checkbox"/> Siltstn | <ul style="list-style-type: none"> <input type="checkbox"/> TEXTURE <input type="checkbox"/> Soundst <input type="checkbox"/> Chalky <input type="checkbox"/> Cryxln <input type="checkbox"/> Earthy <input type="checkbox"/> Finexln <input type="checkbox"/> Grainst <input type="checkbox"/> Lithog <input type="checkbox"/> Microxln <input type="checkbox"/> Mudst <input type="checkbox"/> Packet <input type="checkbox"/> Wackst |
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| <ul style="list-style-type: none"> <input type="checkbox"/> Intervals <input type="checkbox"/> Core <input type="checkbox"/> Dst <input type="checkbox"/> Dst | <ul style="list-style-type: none"> <input type="checkbox"/> Fracture <input type="checkbox"/> Inter <input type="checkbox"/> Moldic <input type="checkbox"/> Organic <input type="checkbox"/> Pinpoint <input type="checkbox"/> Vuggy | <ul style="list-style-type: none"> <input type="checkbox"/> OTHER SYMBOLS <input type="checkbox"/> Carb shale <input type="checkbox"/> Gray shale <input type="checkbox"/> Sandy lmst <input type="checkbox"/> Shale <input type="checkbox"/> Silt stn <input type="checkbox"/> Shaly slst <input type="checkbox"/> Shly shale <input type="checkbox"/> Blank <input type="checkbox"/> Cream lmst <input type="checkbox"/> Red shale <input type="checkbox"/> Blue-green siltstn <input type="checkbox"/> D. green shale <input type="checkbox"/> Green shale | <ul style="list-style-type: none"> <input type="checkbox"/> BROWN <input type="checkbox"/> Brown lmst <input type="checkbox"/> Brown shale <input type="checkbox"/> Brown dot <input type="checkbox"/> Brown cream <input type="checkbox"/> D. green lmst <input type="checkbox"/> Light cream lmst <input type="checkbox"/> Gray cream lmst <input type="checkbox"/> Green dol <input type="checkbox"/> Gray dol | <ul style="list-style-type: none"> <input type="checkbox"/> ROUNDING <input type="checkbox"/> Rounded <input type="checkbox"/> Subrnd <input type="checkbox"/> Subang <input type="checkbox"/> Angular | <ul style="list-style-type: none"> <input type="checkbox"/> OIL SHOWS <input type="checkbox"/> Even <input type="checkbox"/> Spotted <input type="checkbox"/> Ques <input type="checkbox"/> Dead <input type="checkbox"/> Gas show |
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| <ul style="list-style-type: none"> <input type="checkbox"/> Anhy <input type="checkbox"/> Chl <input type="checkbox"/> Congl <input type="checkbox"/> Shly <input type="checkbox"/> Shgy <input type="checkbox"/> Ss | <ul style="list-style-type: none"> <input type="checkbox"/> ROCK TYPES <input type="checkbox"/> Shly shale <input type="checkbox"/> Blank <input type="checkbox"/> Silt <input type="checkbox"/> Cream lmst <input type="checkbox"/> Red shale <input type="checkbox"/> Blue-green siltstn <input type="checkbox"/> Red shale <input type="checkbox"/> Blue-green shaly | <ul style="list-style-type: none"> <input type="checkbox"/> D. green shale <input type="checkbox"/> Green shale <input type="checkbox"/> Brown lmst <input type="checkbox"/> Brown shale <input type="checkbox"/> Brown dol <input type="checkbox"/> Brown cream | <ul style="list-style-type: none"> <input type="checkbox"/> D. green lmst <input type="checkbox"/> Light cream lmst <input type="checkbox"/> Gray cream lmst <input type="checkbox"/> Green dol <input type="checkbox"/> Gray dol |
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Comments
5 1/2" Production casing was cemented to a depth of 5537' with 200 SKS of class a asc. Recommended zones of interest in this well would be the Mississippian from 4788 to 4850, Misener Sand from 5117' to 5121' and the Lower Simpson Sand from 5424' to 5434'.

