

SKELLY OIL COMPANY

GEOLOGICAL DEPARTMENT NE NW NE

COMPANY Derby Oil Co.,

S. 3 T. 10S R. 16W

Lease and Well No. Kruse #1

COUNTY Roooks

STATE

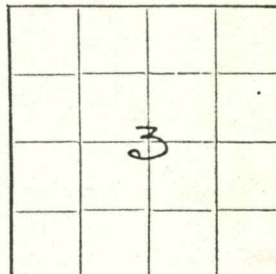
ELEVATION

Drilling Commenced

Drilling Completed

Initial Production

Tray # 13



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CASING

DRILL CUTTINGS

- 2992-3001 - mostly white to brown somewhat crystalline cherty lime - some grey shale
- 3003-3010 - Same as above
- 3010-19 - " " "
- 3019-25 - mostly white to grey dense lime - considerable black shale
- 3025-35 - grey shale
- 3035-44 - $\frac{1}{2}$ black to grey shale - $\frac{1}{2}$ dense lime, brown crystalline lime & white chert
- 3044-50 - grey shale & grey sandy shale, white dense lime & chert
- 3050-58 - grey, red, & olive shale
- 3058-64 - red, green, & grey shale & soft white lime
- 3064-67 - $\frac{1}{2}$ red, green & grey shale - $\frac{1}{2}$ hard dense white lime
- 3069-73 - red shale & red sandy shale - a little lime
- 3073-75 - red & grey shale - a little white lime
- 3075-76 - white to brown dense lime & some black shale
- 3076-80 - Same as above
- 3080-83 - white to brown crystalline lime
- 3083-87 - Same as Above
- 3087-92 - " " "
- 3092-95 - mostly white to brown crystalline to dense lime - some black shale
- 3095-3100 - Same as above
- 3100-06 - white to brown dense lime
- 3106-12 - white to brown dense to crystalline lime
- 3112-15 - Same as above
- 3115-20 - white to brown lime - considerable grey to red shale
- 3120-25 - Same as above
- 3125-28 - " " "
- 3125-30 - white to brown lime - ~~xxx~~ a little grey to red shale
- 3130-32 - mostly grey red to green shale - some white lime
- 3132-38 - white to brown crystalline to dense lime - some grey shale
- 3138-43 - $\frac{1}{2}$ white to brown lime - $\frac{1}{2}$ black shale
- 3143-48 - $\frac{2}{3}$ white to brown - $\frac{1}{3}$ black shale
- 3148-54 - mostly grey shale - some white lime
- 3157-60 - mostly grey, red & green shale - some white lime
- 3160-67 - $\frac{1}{2}$ white crystalline lime - $\frac{1}{2}$ grey, red & green shale

3167 = old T.D. later D.D. to confusion of 79 3445 + DTA

Driller log

Derby #1 Kruse

NWc NE NE Sec. 3-10-167.

Elevation 1928'



- 3187-3191 Crystalline white & buff gray lime
- 3200 Dark gray & black shale, fragments marcasite
- 10 White & buff gray lime & dark shale 50%
- 20 " & gray lime & dark shale
- 30 White & light gray crystalline lime
- 38 Gray shale some altered red, gray lime
- 46 gray shale, some altered red, light gray lime 60%
- 50 Gray shale 60% some altered red, light gray lime
- 60 Gray shale 50%, more red, white & gray lime 50%
- 70 Gray calcite shale
- 78 Crystalline white & light gray lime, some red & gray shale
- 83 " " " " " " 50% gray shale 50%
- 90 Gray shale
- 3301 Gray shale & black shale, some dark gray brown lime
- 10 Gray shale & black shale, dark gray brown lime
- 18 " " " " " " " " " "
- 25 Gray & some red, some dark gray brown lime
- 33 Gray shale 50%, some red, gray lime 50%
- 35 Dark shale, some red, weathered lime
- 40 " " " " " " "
- 45 Weathered red sample, gray & gray green shale & red lime
- 49 " " " " , lime & shale
- 60 White lime flaky, some weathered lime & shale
- 70 Var. light chert, weathered lime & shale
- 75 Same
- 82 "
- 86 Var. weathered shale & lime (conglomerate) chert.
- 91 " shale, lime, chert, some cemented sand weathered
- 96 Light green gray shale weathered, some chert & lime
- 3400 Weathered var. lime & shale, fragments sand & chert
- 10 " " " " " " , light green gray altered yellow, chert.
- 20 Same.

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Top Weathered Zone 3323'
Top Cherty Conglomerate 3362'

3425' T.D. - Tools lost in hole & plugged.

G. C. W

Plotted

Derby #1 Kruse
S.3 T.10 R.16W.

- 3003-19 Drab fossiliferous lime, some gray-green shale intercalated
- 3019-25 do. and some black shale
- 3025-35 Greenish-gray shale
- 3035-44 Drab fossiliferous lime, some greenish-gray, brown shale intercalated
- 3044-50 do. increase in % of shale 55% some cemented sand
- 3050-58 Various colored shale, trace of drab fossiliferous lime
- 3058-64 do. increase in % of lime 15%
- 3064-67 Greenish-gray, brown shale, some drab-white fossiliferous lime
- 3069-73 Various colored shale some drab lime
- 3073-75 do. increase in % of lime
- LANSING
- 3075-80 drab fossiliferous lime, some greenish-gray, brown shale inter.
- 3080-87 Drab fossiliferous lime trace of shale
- 3087-92 do. and some dark gray shale intercalated
- 3092-95 Drab fossiliferous lime, some greenish-gray, brown shale intercalated
- 95-3100 do. increase in % of brown shale 15%
- 3100-16 do.
- 3106-12 Drab fossiliferous partly oolitic lime, some gray, brown shale
- 3112-15 Drab-white fossiliferous partly oolitic lime
- 3115-20 Greenish-gray brown shale, drab fossiliferous lime
- 3120-25 Drab fossiliferous lime, some brown-gray shale intercalated
- 3125-28 do. increase in % of brown shale 20%
- ~~3128-30~~
- 3128-30 Drab fossiliferous lime, some brown shale
- 3130-32 Brown-greenish-gray shale, some drab fossiliferous lime inter.
- 3132-38 Drab fossiliferous lime, some brown-greenish-gray shale
- 3138-43 do. increase in % of shale 50%
- 3148-54 Brown-greenish-gray shale, trace of lime drab intercalated
- 3157-60 Brown-greenish-gray shale trace of lime
- 3160-67 Brown-greenish-gray shale with drab-white fossiliferous lime intercalated

B.V.K

K. G. S. LIBRARY

3000-3420

3-10-16W
NWNeNe

Derby #1 Kruse
N.7 NENE 3-10-16W, Rocks Co. Mov. 1927

- 3003-19 Drab fossiliferous lime, some gray-green shale intercalated
- 3019-25 do. and some black shale
- 3025-35 Greenish-gray shale
- 3035-44 Drab fossiliferous lime, some greenish-gray, brown shale intercalated
- 3044-50 do. increase in % of shale 55% some cemented sand
- 3050-58 Various colored shale, trace of drab fossiliferous lime
- 3058-64 do. increase in % of lime 15%
- 3064-67 Greenish-gray, brown shale, some drab-white fossiliferous lime
- 3069-73 Various colored shale some drab lime
- 3073-75 do. increase in % of lime

LANSING

- 3075-80 drab fossiliferous lime, some greenish-gray, brown shale inter.
- 3080-87 Drab fossiliferous lime trace of shale
- 3087-92 do. and some dark gray shale intercalated
- 3092-95 Drab fossiliferous lime, some greenish-gray, brown shale intercalated
- 95-3100 do. increase in % of brown shale 15%
- 3100-16 do.
- 3106-12 Drab fossiliferous partly colitic lime, some gray, brown shale
- 3112-15 Drab-white fossiliferous partly colitic lime
- 3115-20 Greenish-gray brown shale, drab fossiliferous lime
- 3120-25 Drab fossiliferous lime, some brown-gray shale intercalated
- 3125-28 do. increase in % of brown shale 20%
- 3128-30 Drab fossiliferous lime, some brown shale
- 3130-32 Brown-greenish-gray shale, some drab fossiliferous lime inter.
- 3132-38 Drab fossiliferous lime, some brown-greenish-gray shale
- 3138-43 do. increase in % of shale 50%
- 3148-54 Brown-greenish-gray shale, trace of lime drab intercalated
- 3157-60 Brown-greenish-gray shale trace of lime
- 3160-67 Brown-greenish-gray shale with drab-white fossiliferous
lime intercalated

- 3187-3191 Crystalline white & buff gray lime
- 3200 Dark gray & black shale, fragments marcasite
- 10 White & buff gray lime & dark shale 50%
- 20 " & gray lime & dark shale
- 30 White & light gray crystalline lime
- 38 Gray shale some altered red, gray lime
- 46 gray shale, some altered red, light gray lime 60%
- 50 Gray shale 60% some altered red, light gray lime
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- 78 Crystalline white & light gray lime, some red & gray shale
- 83 " " " " " " 50% gray shale 50%
- 90 Gray shale
- 3301 Gray shale & black shale; some dark gray brown lime
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- 60 White lime flaky, some weathered lime & shale
- 70 Var. light chert, weathered lime & shale
- 75 Same
- 82 "
- 86 Var. weathered shale & lime (conglomerate) chert.
- 91 " shale, lime, chert, some cemented sand weathered
- 96 Light green gray shale weathered, some chert & lime
- 3400 Weathered var. lime & shale, fragments sand & chert
- 10 " " " " " " , light green gray altered yellow, chert
- 20 Same

3-10-16w
NW NE NE

Derby #1 Kruse
NW NE NE 3-10-16W, Rooks County
Elevation 1928'

Property of
Kansas Geological Society
540 Petroleum Bldg.
Wichita, Kansas

McNeil

- 3010-19 light gray tan dense to semicrystalline lime
- 3025 light tan dense lime, black shale
- 3035 medium green gray drab shale, pyrite
- 3044 samples missing
- 3050 green gray drab pyritiferous shale, gray tan fossil lime, crinoids
- 3058 green gray drab shale, some red shale
- 3064 same, increase red shale, light tan dense lime
- 3067 light cream tan dense to partly crystalline lime
- 3073 red & some green gray tan dense to partly crystalline lime
- 3075 tan dense to partly crystalline lime, some red and green gray shale, caving?
- 3076 light tan crystalline vitreous to dense platy lime
- 3080 light tan dense platy to partly crystalline lime, some oil stain
- 3083 same, oil stain, no porosity noted
- 3087 light gray tan semicrystalline lime, crinoids
- 3092 same, spines
- 3095 same, trace red shale
- 3100 same
- 3106 light to medium tan dense lime, some finely oolitic, oil stained
- 3112 same, lime more crystalline
- 3116 light cream tan semicrystalline lime
- 3120 same, some green gray shale
- 3125 same, green gray & red shale
- 3128 light cream tan dense to semicrystalline lime
- 3130 same
- 3132 same, dark red shale
- 3138 light tan semicrystalline lime
- 3148 gray tan partly argill lime, bryozoans, green gray & red shale
- 3154 same, increase green gray drab shale
- 3157 light to medium tan partly crystalline lime
- 3160 same, increase red shale
- 3164 light cream tan dense lime, light tan clear chert
- 3167 light cream tan dense to finely crystalline lime
- 3187 samples missing
- 3191 light tan semicrystalline lime
- 3200 same, green gray drab shale
- 3210 light tan semicrystalline lime, spines
- 3220 light tan dense dull lime
- 3230 light tan semicrystalline lime, light tan chert
- 3238 green gray drab & some red shale
- 3238-46 light tan dense to partly crystalline lime
- 3250 light tan dense to partly crystalline lime, green gray & red shale, caving, light tan chert
- 3260 same
- 3270 medium green gray drab shale
- 3278 light tan dense to crystalline lime, pieces slightly oil stained, some red shale
- 3283 same, decrease red shale
- 3290 gray brown fossil lime, green gray calc. shale, spines, crinoids
- 3301 same
- 3310 same, lime lighter in color
- 3318 same

Derby #1 Kruse

Page 2

3333 same
3335 same, increase green gray drab shale
3340 same, some red shale, pieces red stained lime
3345 red shale, red stained lime
3360 light cream tan dense lime, variegated shale, caving?
3370 red, pink and yellow chert, green & some red shale,
pieces sandy conglomerate lime
3375 same, increase chert, some oolitic, few rounded sand grains
3382 same, increase red & some green conglomerate shale
3391 same, pieces clear subang. to rounded sandstone
3396 green waxy shale, rounded sand grains, red & yellowish altered
shale
3400 red shale, red stained & yellow stained lime, variegated chert
3410 same, increase yellow, red and green altered shale, weathered
Simpson
3420 same

Top Hubner Shale	3020
Top Lansing	3073
Top Cherty Conglomerate	3362
T.D.	3420 in Cong.
D. & A.	