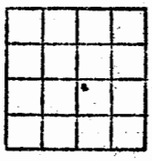
Company- SKELLY OIL CO.
Farm- Helmke "J" No. 5

SEC. 6 T. 27 R. 12W
NW NW SE
330' fr NL 330' fr WL, SE¼

6-27-12W

Total Depth. 4270 PB 4243½'
Comm. 7-29-51 Comp. 10-10-51
Shot or Treated.
Contractor. Chas. Hulme Drlg. Co.
Issued. 2-16-52

County Pratt KANSAS



Elevation. 1875 DF

Production. Pot. 246 bbls.

CASING:
8 5/8" 427' cem. w/250 sx
5 1/2" 4270' cem. w/200 sx

Figures Indicate Bottom of Formations.

surface soil & sand	180
shells & red bed	225
red bed, shale & shells	427
shale	700
anhydrite	735
shells & shale	1150
salt & shale	1400
shale & lime	1945
lime	2090
lime & shale	2470
shale & shells	3000
shale & lime	3525
sandy lime & shale	3630
sand & lime	3684
sandy lime & shale	3723
oolicastic lime	3729
lime	3745
fine sft xyln lime	3747
lime	3820
fine xyln lime	3828
lime	3859
oolicastic lime	3868
lime	3895
fine xyln lime	3900
lime	4080
lime & chert	4160
chert & shale	4200
sand	4210

Cored from 4210' to 4265' recovered 55'
Top 1' - gry shaley tgt sand
Next 1'-fine gry shaley sand
Next 2'- sandy shaley dolo. vuggy porosity
Next 3' - gry, fine xyln dense lime, poor porosity
Next 3' - gry, granular dolo. shale
Next 2' - green, granular pyritic shale
Next 1' - slightly sandy shale
Next 2'- fine grained quartzitic sand
Next 7' fine, gry, shaley sand
Next 4½'- fine, medium grained sand, good porosity
Next ½' -shaley sand
Next 2'- sandy shale
Next 14½'- fine, medium grained shaley sand
Next 6'- sandy green shale
Next 2½'- hrd quartzitic sand
Last 3'- hrd green, slightly sandy shale

Tops:

Douglas Sand	3548
Brown Lime	3659
Lansing Lime	3679
Miss. Lime	4063
Kinderhook Shale	4089
Viola Lime	4105
Simpson Shale	4191
Simpson Sand	4225

Poor porosity, traces of good porosity, traces of fair stain & dead oil 3723-3729'
Poor pososity, trace of drk dead oil 3745-3747'
Pin hole porosity, good oil stain 3820-28'
Good porosity and stain and dead oil 3859-68'
Pin hole porosity, some good oil stain 3895-3900'

On Sept. 22, drilled out cement plug to 2350' set whipstock at 2350' and drilled ahead as follows: Drilled to 2365', straight hole survey showed 1 degree deflection. Drilled to 2370' and set whipstock at 2370' and drilled to 2383' slope test showed 2-1/4 degrees deflection, directional survey showed new hole being drilled to northeast. Drilled to 2385', ran knuckle joint and drilled from 2385' to 2405' survey showed hole deflected 5½ degrees. Directional survey showed hole going to northwest. Drilled to 2425' and found hole deflected 3-3/4 degrees.

shale	2825
shale & lime	2985
lime	3050
lime & shale	3185
lime	3495
shale & lime	3555
sandy lime & shale	3665
shale & lime	3705
lime	3765
lime & shale	3795
lime	3822
fine xyln lime	3824
lime	3860
oolicastic lime	3863
lime	3891
fine xyln lime & finely oolicastic lime	3897
lime	4070
lime & chert	4085
chert & shale	4103
sand & lime	4114
chert & lime	4140
chert & shale	4157
chert & lime	4190
chert & shale	4194
shale	4196
sandy lime & sandy dolomite	4205
sandy dolomite	4213
medium & coarse xyln dolo.	4218
thin strks of dense lime dolo, & sandy shale	4222
blk, green & gry pyritic shale	4225
sandy shale & very sandy dolo.	4227
fine to medium grained sand	4239
streaks of medium grained sand, shale & hrd sand	4248
green & gry shale sandy shale & medium grained sand	4250
medium grained sand hrd sandy shale, green & gry shale	4255
medium and coarse grained sand	4270

Total Depth

Tops:

Heebner Shale	3488
Douglas Sand	3547
Brown Lime	3662
Lansing Lime	3678
Miss. Lime	4064
Kinderhook Shale	4089
Viola Lime	4103
Simpson Shale	4198
Simpson Sand	4228

Deflection 3½ degrees at 2460', 2½ degrees at 2610', 1 degree at 2725'

OVER

182294

Cont'd
Company- Skelly Oil Co.
Farm - Helmke "J" No. 5
6-27-12W
NW NW SE

1 degree at 2930'
1 degree at 3150'
Pin hole porosity, Some good stain with trace of dead oil 3822-3824'
Good porosity and stain, trace of dead oil 3860-63'
Pin hole porosity, trace of good stain 3891-3897'
Dead oil and some sandy shale 4205-4213'
Dark oil stain and dead oil 4213-4218'
Some good oil stain 4218-22'
Good oil saturation 4225-4227'
Light oil sat. 4227-4239'
Good light oil sat. 4239-48'
Spotty and good oil saturation 4248-50'
Good saturation 4250-55'
Good oil stain, traces of white sand, no stain, sandy shale, green & gry shale 4255-70'

Producing Formation:
Simpson Shale & Sand
4205-4212
4222-4227'
4233-4242'

KANSAS GEOLOGICAL SOCIETY
Wichita, Kansas