

State Kansas County Lincoln

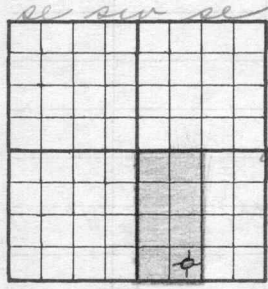
Company Southwestern Explor. Co. & S.M.R. Well No. #16

Farm Heath

Survey _____

Block No. _____ Sec. 20 Twp. 28 Range 16 W
2175 D.F.

Co-Ord. _____ Elev. 2177 K.B.



Rig #1
3/4 - S.W. Exploration Co.
1/4 - G.M.R. Drilg.

Wayne Walches, Geol. - 3-1161

Call S.W. Explor. - 4-6348

Sinclair Dist. Exploitation
D.N.M. 88 - 7-2361

NOTE: Show Sketch of Lease and Well Location in Above Space

Ft. from N. Line 330 Ft. from S. Line _____

990 Ft. from W. Line _____ Ft. from E. Line _____

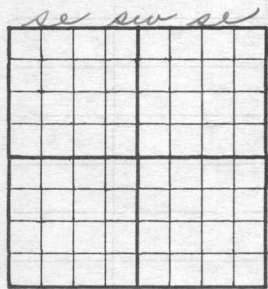
| Date | Depth | |
|---------|-------|--|
| 1953 | | |
| 8-26-53 | | Spudded Rat-holed ahead to 950 2 1/2 ft 4 in. 8-28 @ 345 w/225 st |
| | | Plug down at 10:00 a.m. 8-27-53 |
| 8-28 | 1035 | Drilg. |
| 8-31 | 2881 | ✓ |
| 9-1 | 3197 | ✓ |
| 9-2 | 3518 | ✓ |
| 9-3 | 3826 | ✓ |

702542

| Date | Depth | |
|-----------|---------|--|
| 9-4 | 4092 | Dq. Formation (-1915) |
| | 4126-35 | Dq. Sl. (-1949) |
| | | silty quartzite - NS) |
| | 4209 | Br. Lm. (-2032) |
| 9-5 | 4224 | Lans. (-2047) |
| 9-7 | 4525 | Drlg. |
| 9-8 | 4648 | - |
| 9-9 | 4743 | Miss. (-2566) |
| D.S.T. #1 | 4747-55 | - op. 1 hr. ^{ce 15"} good blow throughout rec. 30' mud - shut in pressure in BHP - 780 [#] still increasing |
| D.S.T. #2 | 4756-70 | - op. 1 hr. ^{ce 20"} fair blow throughout rec. 25' mud w/ slicken sides, BHP - 1100 [#] in 20' Init F.P. - 0 final F.P. - 18 [#] |
| | 4815 | dark brown, gray chert with some shale |
| | 4815-19 | drlg. time changed from 4-5" to 12" |
| 9-10 | 4818 | Drlg. |

State Kansas County Leanna
 Company Southwestern Explor. Well No. 1
 & G.M.R.
 Farm Leath
 Survey _____

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 Co-Ord. _____ Elev. 2177 R.B.



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 3/4 - S.W. Explor. Co.
 1/4 - G.M.R. Delg.
 Wayne Walcher - Seal. 3-1161

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| Date | Depth | |
|------------------|-----------------|--------------------------------|
| <u>1953</u> | <u>4807</u> | <u>Zunderhook Sh. (-2630)</u> |
| | <u>4819-25</u> | <u>- Id. (-2642)</u> |
| <u>D.S.T. #3</u> | <u>-4820-46</u> | <u>- op. 1/2 hr.</u> |
| | | <u>shut in 10", rec. 10'</u> |
| | | <u>and - 75# bhp. w/b blow</u> |
| | <u>4852</u> | <u>Viola (-2675)</u> |
| <u>9-12</u> | <u>4961</u> | <u>Delg.</u> |
| <u>9-14</u> | <u>4985</u> | <u>Sp. (-2808)</u> |
| | <u>5022-37</u> | <u>Case</u> |
| | <u>5040</u> | <u>Delg.</u> |

| Date | Depth | 702542 |
|------|-------|--------------|
| 9-14 | 5058 | arb. (-2881) |
| 9-14 | 5070 | Dily. |
| 9-14 | 5092 | R.T.D. |
| | | (Sg - 5087) |
| | | Dea |
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