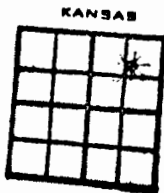


OCT 1 1971

G - PetroDynamics, Inc.
Amarillo, Texas 79109

Drlg. Contractor: Stickle Drilling Company
Date Commenced: 15 December 1969
Date Completed: 30 December 1969



9-34-32W
app - SW NE NE

Elevation: 2770' GL

1 PT CAOF 4,328,000 CFGPD/U Mrw
Johnson No. 1 L Mrw, St Louis
1250' FEL & 1050' FNL
9-34S-32W Seward Co., Ks.

8" @ 1530' W/750 Sx

4 1/2" @ 6500' w/150 Sx

DRILLER'S LOG

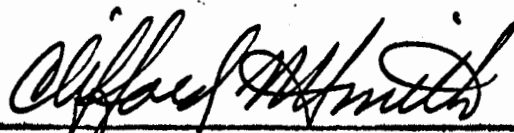
Depth figures indicate base of formation:

LOG TOPS:

Surface Soil and Clay	45
Sand	300
Sand and Red Bed	1335
Red Bed and Anhydrite	1530
Anhydrite and Red Bed	1600
Red Bed and Anhydrite	2085
Shale and Anhydrite	2640
Shale	2900
Lime	3820
Lime and Shale	3994
Lime	5750
Shale and Lime	5945
Lime and Shale	6360
Lime	6500 RTD

U Morrow	5825
L "	5894
St Louis	6402-06

I, Clifford M. Smith, hereby certify that to the best of my knowledge and belief, the above is a true and complete Driller's Log of PetroDynamics, Inc. No. 1 Johnson in Seward County, Kansas.


Clifford M. Smith


Freida E. Widick, Notary Public
My Commission Expires 23 June 1970