

SINCLAIR OIL & GAS COMPANY
KRAUSE-FEDERAL WN NO. 5
1190' FSL, 1625' FWL, Sec. 28-28N-11W
San Juan County, New Mexico

ELEVATION: 5,814 GL

SPUD: 2/4/65

COMPLETED: 3/6/65

IP: 4,735 MCFGPD, 3/4" Choke

CASING: 8-5/8" @ 372' w/230 Sx.
4-1/2" @ 6,379 w/1025 sx (2 stages)
2-3/8" @ 6,190'

LOG TOPS:

Pictured Cliffs	1694 (+4120)
Lewis Shale	1885 (+3929)
Mesaverde	3237 (+2577)
Mancos	4412 (+1402)
Gallup	5298 (+ 516)
Basal Gallup Sand	5678 (+ 136)
Tocito Sand	5706 (+ 108)
Sanastee	5745 (+ 69)
Greenhorn	6101 (- 287)
Graneros	6160 (- 346)
Graneros Sand	6199 (- 385)
Dakota	6284 (- 470)
Total Depth	6380

LITHOLOGY

Kirtland - Fruitland	Surface - 1694	Interbedded variegated shales and sandstones, some coal.
Pictured Cliffs	1694-1885	Sandstone, gray to grayish-white, salt and pepper, fine to med. grain, well sorted, angular to subround, becomes silty and shaly toward base.
Lewis Shale	1885-2617 2617-2656	Shale, dark gray, soft. Sandstone, gray, fine grain, some thin dark gray shale beds.
	2656-3237	Shale, dark gray, soft, sandy, and silty in part.

LITHOLOGY (Cont'd.)

Mesaverde Formation	3237-4412	Interbedded sandstone and shale with coal beds. Sandstones, light to med. gray, very fine grained, well cemented, laminated with light to dark gray carbonaceous shales. Shale, light to dark gray carbonaceous.
Mancos Shale	4412-5298	Shale, light to dark gray, calcareous, some sandstone and limestone stringers.
Gallup	5298-5678	Sandstone and siltstone. Sandstone, gray, dirty, poorly sorted, trashy, fine grain to coarse. Some black carbonaceous shale, fissile in part.
Basal Gallup Sand	5678-5689	Sandstone, light gray, fine grain, friable, subangular to subround, some clay fill.
	5689-5706	Shale, dark gray, fissile.
Tocito Sand	5706-5717	Sandstone, light gray, fine grain, friable, subangular to subround, some clay fill.
	5717-5745	Shale, dark gray, fissile, silty in part.
Sanastee	5745-5769	Sandstone, gray-brown, calcareous, fossiliferous.
	5769-6101	Shale, gray, calcareous, fossiliferous in part. Some silty zones.
Greenhorn	6101-6160	Interbedded gray, shaly limestone and gray, limy shale.
Graneros	6160-6199	Shale, gray, micaceous.

LITHOLOGY (Cont'd.)

Graneros Sand

6199-6284

Sandstone, gray, very fine grained,
Silty in part. Some dark gray
silty shale beds.

Dakota

6284-6380

Sandstone, white to light gray,
fine to med. grained, silty in
part, carbonaceous in part.
Some shale, dark gray, coaly.