

FIELD Wildcat STATE New Mexico COUNTY San Juan SEC. 28 T. 30 N R. 14 W

COMPANY Mountain Fuel Supply FARM Fruitland WELL NO. 1

LOCATION 890' FNL, 790' FEL ELEV. KB 5588.70' GR 5572'

DRILLING COMMENCED _____ COMPLETED _____

RIG RELEASED _____ TOTAL DEPTH 12,448' SLM

CASING RECORD _____

TUBING RECORD _____

PERFORATIONS _____

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	28		

I. P. GAS _____ OIL _____

SANDS _____

SHUT-IN SURFACE PRESSURES _____

REMARKS _____

JUL 10 1977

	FROM	TO
Sandstone, conglomeratic, green, subangular to rounded, some unconsolidated, friable to well cemented, with chert, red granular.	35	50'
Sandstone, as above, some yellow and pyritiferous.	50	62'
Sandstone, conglomeratic, as above, with Siltstone, gray to grayish brown, green in part, sandy.	62	68'
Sandstone, conglomeratic, fine to coarse grained, gray, green.	68	70'
Shale, light green, gray green, purple mottled.	70	96'
Sandstone, very fine to medium grain, green, pink, granular.	96	100'
Shale, as above, pyritic.	100	104'
Sandstone, white, salt and pepper, medium grain, micaceous and pyritic.	104	122'
Shale, green and gray green.	122	128'
Sandstone, white, salt and pepper, medium grain, subangular to subrounded, pyritic, friable, clay filled.	128	140'
Sandstone, medium grain, angular, green, pyritic.	140	150'
Sandstone, as above, with an increase in pyrite.	150	160'
Siltstone, gray green.	160	178'
Shale, gray green, silty, micaceous.	178	188'
Sandstone, green, subangular, micaceous with occasional pink grains.	188	194'
Shale, gray, green, silty, micaceous.	194	224'
Sandstone, brown, medium grain, angular, carbonaceous parting, clay filled.	224	240'
Shale, light gray, silty.	240	268'
Siltstone, light gray, sandy.	268	280'
Sandstone, green, fine grain, micaceous, pyritic, with occasional pink grains.	280	284'
Shale, green to light gray, sandy.	284	304'
Siltstone, light green; Sandstone, green, fine grain, micaceous, pyritic.	304	308'
Shale, green and brown mottled, silty, micaceous.	308	320'
Sandstone, white and green, subangular, with occasional pink grains.	320	340'
Shale, green, sandy to silty.	340	360'
Sandstone, white, slightly salt and pepper, fine grained, friable, some unconsolidated.	360	374'
Sandstone, white, salt and pepper, medium grain, clay filled.	374	382'

FARM _____ WELL NO. _____

COMPANY _____

	FROM	TO
Shale, light gray, silty, micaceous.	382	410'
Siltstone, gray, sandy.	410	420'
Shale, light gray and green, silty.	420	490'
Sandstone, white, slight salt and pepper, medium grain, few carbonaceous partings.	490	500'
Siltstone, light gray to tan, carbonaceous to coaly streaks, pyritic.	500	520'
Siltstone, tan, light gray, coaly in part.	520	540'
Shale, green, sandy.	540	550'
Sandstone, white, fine medium grain, subangular.	550	564'
Shale, green and gray, slight carbonaceous with coal inclusion.	564	596'
Sandstone, white to brown, fine medium grain, calcareous.	596	604'
Shale, light gray, with coal partings.	604	616'
Shale, light gray with thin coal streaks.	616	650'
Shale, gray to light gray with coal partings.	650	686'
Shale, light gray to gray, carbonaceous.	686	702'
Sandstone, white, very fine grain.	702	706'
Shale, light gray to gray, with thin streaks of Sandstone, white, very fine grain.	706	724'
Shale, as above, with thin carbonaceous streaks.	724	732'
Shale, as above, becoming increasingly sandy and silty; also trace coal.	732	780'
Sandstone, white to light gray, very fine grain, salt and pepper, calcareous, white clay infil, trace Calcite.	780	802'
Sandstone, white, salt and pepper, fine medium grain, calcareous, clay filled, pyritic.	802	806'
Siltstone, light gray, sandy.	806	824'
Shale, green, light gray, some calcareous, carbonaceous, with coal thin seams.	824	834'
Sandstone, white, salt and pepper, fine grain, calcareous, clay filled with coal partings.	834	876'
Sandstone, white, salt and pepper, fine grain, calcareous, clay filled.	876	884'
Coal, gaseous.	884	900'
Siltstone, light gray, very carbonaceous; Shale, green, sandy.	900	920'
Sandstone, white, salt and pepper, fine grain, calcareous, slight glauconitic.	920	952'
Sandstone, white, salt and pepper, fine medium grain, calcareous with carbonaceous partings.	952	970'
Coal, black.	970	980'
Siltstone, gray, carbonaceous, with some thin laminations of coal.	980	1020'
Coal, gaseous.	1020	1040'
Shale, green, sandy; Siltstone, gray, carbonaceous; Sandstone, white, salt and pepper, fine medium grain.	1040	1058'
Shale, gray, with coal partings and streak of coal.	1058	1086'
Shale, gray to tan.	1086	1110'
Siltstone, gray, sandy, calcareous.	1110	1142'
Sandstone, white, salt and pepper, fine medium grain, subangular, glauconite, clay filled, with occasional pink grains.	1142	1168'
Sandstone, white, salt and pepper, medium grain, subangular, glauconitic, clay filled.	1168	1174'
Sandstone, as above, tan to white, micaceous, with occasional pink grains, also some tan clay inclusion.	1174	1204'
Sandstone, salt and pepper, tan to white, micaceous, clay filled, with occasional pink grains.	1204	1208'
Sandstone, as above, fine grain.	1208	1232'
Shale, gray, pyritic, micro micaceous, slightly calcareous.	1232	1240'
Siltstone, light gray, salt and pepper, calcareous.	1240	1262'
Shale, gray, with coal partings, micro micaceous.	1262	1300'
Shale, gray, micro micaceous.	1300	1326'
Sandstone, light gray, salt and pepper, very fine grained, slight calcareous, with carbonaceous partings.	1326	1340'
Siltstone, light to medium gray, micro micaceous, carbonaceous in part.	1340	1366'

FARM _____ WELL NO. _____

COMPANY _____

	FROM	TO
Shale, medium gray, calcareous, micro micaceous.	1366	1380'
Shale, medium gray, calcareous, micro micaceous, silty.	1380	1422'
Siltstone, light to medium gray, sandy, calcareous, micro micaceous.	1422	1456'
Siltstone, medium gray to light gray, sandy, calcareous.	1456	1484'
Shale, gray, calcareous, silty, micaceous.	1484	1492'
Shale, gray, micro micaceous, silty, calcareous, with some carbonaceous material.	1492	1528'
Shale, gray, calcareous, silty, micaceous, with fossil fragments.	1528	1572'
Shale, gray, slightly calcareous, micro micaceous with occasional carbonaceous partings.	1572	1606'
Shale, gray, micaceous, slightly calcareous, carbonaceous.	1606	1632'
Shale, gray, micro micaceous, slightly calcareous with occasional carbonaceous partings.	1632	1660'
Siltstone, gray, calcareous, shaly with carbonaceous partings.	1660	1670'
Shale, gray, slightly calcareous, silty in part, micro micaceous, carbonaceous.	1670	1710'
Shale, gray, slight calcareous, silty, micro micaceous, with thin stringers of Siltstone; light gray, sandy, calcareous.	1710	1766'
Shale, gray, slightly calcareous, finely micaceous, carbonaceous, with tan Claystone leaf casts.	1766	1824'
Shale, gray, calcareous, micaceous, carbonaceous, silty in part.	1824	1860'
Shale, gray, slightly calcareous, very silty.	1860	1884'
Shale, gray, very silty, grading to shaly Siltstone.	1884	1900'
Shale, as above, micaceous in part, trace Arragonite.	1900	1914'
Shale, gray, silty, micaceous in part.	1914	1926'
Shale, as above, becoming increasingly silty.	1926	1948'
Shale, gray, silty, with very thin streaks Siltstone.	1948	1964'
Shale, becoming lighter gray, silty in part, micaceous, with trace of Arragonite.	1964	1982'
Shale, as above, with micro lenses of Sandstone, white, salt and pepper, very fine grain.	1982	2000'
Shale, as above; Sandstone, white, salt and pepper, very fine grain, in thin lenses.	2000	2004'
Shale, as above, becoming more silty to sandy.	2004	2044'
Shale, gray, very silty grading to shaly; Siltstone, white, tan with trace of Calcite.	2044	2060'
Shale, light gray, silty, slightly carbonaceous, slightly calcareous.	2060	2084'
Shale, light gray, slightly silty, slightly micaceous and carbonaceous.	2084	2100'
Siltstone, light gray, sandy, shaly in part.	2100	2124'
Siltstone, as above, becoming sandy.	2124	2158'
Siltstone, light gray, sandy, grading to silty Shale.	2158	2184'
Sandstone, white, salt and pepper, very fine grain, grading to Siltstone.	2184	2202'
Interbedded Shale; Sandstone and Siltstone, as above.	2202	2224'
Interbedded Shale; Siltstone and Sandstone, as above, with carbonaceous plant fragments.	2224	2242'
Sandstone, white, salt and pepper, very fine grain with occasional green grains.	2242	2266'
Siltstone, very light gray, sandy clay filled grading to very fine grain Sandstone.	2266	2300'
Siltstone, very light gray; Shale, light gray, silty, bentonitic.	2300	2322'
Siltstone, light to medium gray, sandy in part, clay filled, grading to very fine grained Sandstone.	2322	2356'
Shale, light gray, with streaks of Bentonite; Siltstone, light to medium gray, slightly salt and pepper, clay filled.	2356	2380'
Siltstone, light gray, sandy to very sandy grading to Sandstone; Shale, light to medium gray.	2380	2400'
Shale, gray, very silty grading to shaly Siltstone, some carbonaceous.	2400	2422'
Siltstone, very light gray, white, sandy.	2422	2444'
Siltstone, grading to very fine grained Sandstone.	2444	2470'
Siltstone, light gray, grading to very fine grained Sandstone.	2470	2500'

FARM _____ WELL NO. _____

COMPANY _____

	FROM	TO
Siltstone, light gray; Shale, light gray, bentonitic in part.	2500	2526'
Siltstone, light to medium gray, slightly salt and pepper, grading to very fine grained Sandstone.	2526	2536'
Shale, light gray.	2536	2560'
Siltstone, light gray, becoming very fine grained Sandstone; Shale, light gray.	2560	2584'
Siltstone, light gray to brown, grading to very fine grained Sandstone.	2584	2604'
Sandstone, white, salt and pepper, subangular, very fine grained; Siltstone, light to medium gray, grading to very fine grained Sandstone.	2604	2632'
Sandstone, white, very fine grained, subrounded, clay filled; Siltstone, light gray, clay filled.	2632	2664'
Sandstone, white, slightly salt and pepper, very fine to fine grained, subangular, clay filled; Shale, gray to brown, carbonaceous in part.	2664	2686'
Sandstone, white, salt and pepper, fine to medium grain, sub- angular to subrounded, clay filled, with lenses of Coal.	2686	2704'
Sandstone, white, salt and pepper, fine to medium grain, sub- angular to subrounded, clay filled, carbonaceous.	2704	2724'
Sandstone, white, salt and pepper, fine grained, subrounded, non calcareous, clay filled, with occasional Glauconite grains.	2724	2740'
Sandstone, white, salt and pepper, fine grain, subrounded, non calcareous, clay filled.	2740	2753'
Shale, dark brown, very carbonaceous, with thin streaks of Coal.	2753	2767'
Sandstone, white, salt and pepper, very fine to fine to medium grain, clay filled, carbonaceous in part; with Siltstone, white to gray, sandy; Shale, gray, silty.	2767	2794'
Shale, light to dark gray, dark brown, silty, very carbonaceous, with thin laminations of Coal.	2794	2824'
Shale, becoming mostly dark brown, carbonaceous, with plant fragments.	2824	2838'
Sandstone, white, salt and pepper, fine grain; Siltstone, gray sandy, non calcareous; Shale, tan and brown, silty in part.	2838	2860'
Shale, as above, very carbonaceous.	2860	2878'
Sandstone, white, salt and pepper, very fine to coarse grained, poorly sorted, clay filled; Siltstone, gray, shaly; Shale, dark brown, carbonaceous.	2878	2889'
Shale, dark brown and dark gray, silty in part, very carbonaceous in part.	2889	2920'
Siltstone, light gray, very shaly.	2920	2943'
Sandstone, white, slightly salt and pepper, fine grained, angular to subangular, clay filled, with occasional brown grains; Shale, brown, coaly.	2943	2953'
Sandstone, as above, with some brown iron stain, abundant clay.	2953	2987'
Coal, black, gaseous; Shale, medium brown, soft.	2987	3010'
Shale, light to medium gray, silty; Siltstone, light gray, sandy.	3010	3040'
Siltstone, light gray, shaly; Shale, gray, sandy.	3040	3062'
Sandstone, white, salt and pepper, very fine to fine grained, subrounded, clay filled; Siltstone, white to very light gray, sandy, clay filled.	3062	3092'
Shale, gray and brown, very carbonaceous.	3092	3110'
Siltstone, light gray, clay filled; Shale, medium gray, argill- aceous sandy grading to Sandstone.	3110	3113'
Sandstone, white, slight salt and pepper, very fine to fine grained, clay filled, with occasional brown grains.	3113	3139'
Sandstone, white, slight salt and pepper, very fine to fine grained, clay filled, with occasional brown grains.	3139	3143'
Shale, light gray to brown, very carbonaceous in part.	3143	3169'
Sandstone, white, salt and pepper, fine grained, subangular, clay filled, non calcareous.	3169	3173'
Shale, brown to dark brown, gray.	3173	3200'
Siltstone, light tan, sandy.	3200	3210'

FARM _____ WELL NO. _____

COMPANY _____

	FROM	TO
Sandstone, white, slightly salt and pepper, very fine grained, subangular to angular, clay filled	3210	3222'
Shale, light to dark gray and dark brown, carbonaceous.	3222	3234'
Sandstone, white, slightly salt and pepper, very fine grained, abundant clay fill, with thin streaks Bentonite.	3234	3238'
Siltstone, brownish gray, very shaly in part, grading to silty Shale.	3238	3258'
Siltstone, white, sandy, grading to very fine grained Sandstone.	3258	3266'
Sandstone, white, slightly salt and pepper, medium to fine grained, poorly sorted, clay filled.	3266	3281'
Sandstone, as above, some unconsolidated.	3281	3290'
Siltstone, white to very light tan, sandy, grading to very fine grain Sandstone.	3290	3304'
Sandstone, white, salt and pepper, medium grain, subrounded clay filled, non calcareous.	3304	3311'
Siltstone, as above; Sandstone, white, very fine grained.	3311	3328'
Sandstone, white, salt and pepper, medium to coarse grained, angular to subrounded, clay filled, becoming very fine to coarse grained.	3328	3360'
Sandstone, white, salt and pepper, medium grained, subrounded to subangular, clay filled, friable in part with thin streaks of Bentonite, white, soft.	3360	3370'
Sandstone, white, salt and pepper, medium grained, with brown and pink grains, with occasional Bentonite streaks.	3370	3385'
Sandstone, as above, becoming fine to medium grain.	3385	3406'
Sandstone, white, salt and pepper, medium grain, subrounded, clay filled, with streaks of Bentonite, white.	3406	3422'
Siltstone, light gray, salt and pepper, clay filled; Bentonite, white, soft.	3422	3430'
Shale, light gray, soft, argillaceous.	3430	3436'
Shale, gray, silty.	3436	3440'
Shale, gray to brown, with streak of Coal.	3440	3455'
Sandstone, white, salt and pepper, fine grained, subrounded, non calcareous, clay filled.	3455	3470'
Sandstone, as above, subangular.	3470	3482'
Siltstone, light gray, salt and pepper, sandy.	3482	3490'
Sandstone, white, salt and pepper, fine grained, clay filled; Shale, gray to brown with very thin laminations of Coal.	3490	3504'
Coal, black.	3504	3506'
Shale, light to medium gray, silty.	3506	3526'
Shale, light gray; Siltstone, light gray, sandy.	3526	3542'
Sandstone, white, salt and pepper, medium grained, subrounded, slight calcareous, abundant clay filling.	3542	3562'
Sandstone, as above, subrounded to subangular, abundant unconsolidated grains.	3562	3572'
Sandstone, white, salt and pepper, clean, medium grained, subangular.	3572	3613'
Sandstone, white, salt and pepper, medium grained, subangular to subrounded, slight clay filled.	3613	3626'
Sandstone, white, salt and pepper, medium grained, subangular, non calcareous.	3626	3640'
Sandstone, white, salt and pepper, medium grained, some clay filled.	3640	3660'
Sandstone, white, salt and pepper, medium to fine grained, subrounded, poorly sorted, clay filled with trace CHLORITE.	3660	3680'
Sandstone, white, salt and pepper, medium to fine grained, poorly sorted, clay filled, with occasional glauconitic grains.	3680	3700'
Sandstone, white, salt and pepper, fine grain, clay filled, non calcareous.	3700	3710'
Sandstone, white, salt and pepper, very fine to fine grained, angular to subangular, clay filled, with occasional streaks Bentonite, white, soft.	3710	3722'

	FROM	TO
Sandstone, white, salt and pepper, very fine grained, hard, sharp, clay filled.	3722	3742'
Sandstone, white, salt and pepper, very fine grained, very argillaceous.	3742	3760'
Sandstone, as above with thin streaks Bentonite, white, soft.	3760	3770'
Sandstone, white, salt and pepper, very fine grain, slight glauconitic, with very thin streaks Bentonite.	3770	3790'
Siltstone, light gray to white, sandy.	3790	3804'
Siltstone, light gray, salt and pepper, clay filled.	3804	3812'
Siltstone, white, salt and pepper, non calcareous.	3812	3828'
Siltstone, white, salt and pepper, sandy, non calcareous.	3828	3846'
Shale, light gray to brown, argillaceous.	3846	3864'
Siltstone, white to light gray; Shale, light gray to gray, with dark spots and inclusion.	3864	3886'
Siltstone, gray, slightly shaly, with Shale as above.	3886	3902'
Siltstone, light gray to gray, with brown spots.	3902	3909'
Shale, light gray, silty.	3909	3926'
Shale, gray, slightly silty, with Siltstone as above, pyritic.	3926	3942'
Siltstone, light to dark gray, sandy, with Shale, gray, spotty.	3942	3960'
Siltstone, light gray, sandy, shaly in part, grading to silty Shale, carbonaceous.	3960	3986'
Shale, gray, silty and dark brown, with carbonaceous fragment.	3986	4010'
Shale, gray, silty, becoming softer and more carbonaceous.	4010	4038'
Shale, gray, silty soft, with some dark brown Shale.	4038	4052'
Shale, light brownish gray, silty, soft.	4052	4062'
Shale, as above, moderately hard.	4062	4072'
Shale, dark gray, very silty, non calcareous, some soft.	4072	4090'
Shale, brownish gray, moderately hard, very silty with micro lenses of Siltstone.	4090	4110'
Shale, gray, moderately hard, very silty, with some brown, soft.	4110	4130'
Shale, gray, moderately hard, very silty, with some brown, soft.	4130	4148'
Shale, mostly brownish gray, silty, with some brown, soft with trace Arragonite.	4148	4164'
Shale, as above, with micro lenses of Siltstone, micaceous.	4164	4176'
Shale, dark gray, silty, hard with Siltstone streaks, light brown, soft.	4176	4186'
Shale, as above, slight calcareous in part.	4186	4196'
Shale, gray, very silty, slightly carbonaceous.	4196	4204'
Shale, light to medium gray, silty, soft.	4204	4212'
Shale, gray, becoming soft, silty, carbonaceous.	4212	4228'
Shale, gray, very silty, soft, carbonaceous.	4228	4238'
Shale, gray, silty, firm, with carbonaceous spots.	4238	4250'
Shale, gray, firm, very silty.	4250	4260'
Shale, gray to brown, very silty, soft to firm.	4260	4270'
Shale, gray, very silty; with Siltstone, very light gray, sandy.	4270	4284'
Shale, gray, very silty.	4284	4292'
Shale, becoming less silty and darker gray with lenses of Siltstone.	4292	4304'
Shale, gray to brownish gray, increasingly silty; with Siltstone, very light brownish gray, sandy.	4304	4324'
Shale, gray, very silty, hard, with trace of Calcite.	4324	4330'
Shale, brownish gray, silty, slight calcareous.	4330	4342'
Shale, as above, and some soft; with trace Limestone, brown.	4342	4350'
Shale, brownish gray, very silty, some brown, soft; with trace Bentonite, white, soft.	4350	4366'
Shale, dark brownish gray, silty in part, slight calcareous.	4366	4384'
Shale, as above, with trace brown, dense, Dolomite.	4384	4400'
Shale, brownish gray, silty, slightly carbonaceous, slightly calcareous; with trace Dolomite, brown.	4400	4410'
Shale, becoming dark gray, silty, calcareous, with occasional micro lenses of Siltstone.	4410	4430'
Shale, gray, brownish gray, silty, carbonaceous, calcareous.	4430	4444'

	<u>FROM</u>	<u>TO</u>
Shale, dark brownish gray, some soft, calcareous, micaceous, slightly carbonaceous.	4444'	4452'
Shale, gray to brown, silty, with occasional thin streaks of Siltstone.	4452	4462'
Shale, gray, silty, as above.	4462	4472'
Shale, gray to brown, silty, calcareous.	4472	4482'
Shale, gray to dark gray; Siltstone, brown, with Glauconite grains.	4482	4492'
Shale, dark brown gray, very silty, gaseous.	4492	4504'
Shale, brown, silty, calcareous.	4504	4512'
Shale, grayish brown, silty, micro pyritic, with black carbonaceous specks.	4512	4522
Shale, gray to dark brown, silty, carbonaceous, gaseous, with trace Arragonite.	4522	4532'
Shale, gray, silty, carbonaceous, calcareous, gaseous.	4532	4542'
Shale, brown, silty, calcareous; trace Dolomite, brown, hard,	4542	4550'
Shale, dark gray, slightly calcareous.	4550	4562'
Shale, gray, calcareous, carbonaceous, pyritic.	4562	4572'
Shale, brownish gray, slightly silty, calcareous, carbonaceous.	4572	4582'
Shale, brownish gray, calcareous in part, slightly silty.	4582	4592'
Shale, as above, with trace Arragonite.	4592	4602'
Shale, dark brownish gray, slightly silty with black carbonaceous specks and inclusion.	4602	4614'
Shale, as above, with trace Pyrite.	4614	4622'
Shale, brownish gray becoming more silty, calcareous, with black spots and inclusion.	4622	4630'
Shale, slightly silty, some light brown, soft.	4630	4642'
Shale, as above, with trace Calcite, brown.	4642	4650'
Limestone, dark brown, slightly dolomitic.	4650	4660'
Shale, gray to brownish gray, silty, calcareous, carbonaceous.	4660	4682'
Shale, grayish brown, dense, calcareous, silty in part, with thin streaks Limestone, brown, dolomitic.	4682	4702'
Shale, brownish gray, calcareous, and silty in part, with thin lenses of Limestone, brown.	4702	4712'
Shale, gray, calcareous, with trace of Siltstone; Limestone, brown, dolomitic.	4712	4730'
Shale, brown to gray, with micro streaks of Siltstone; Limestone, as above.	4730	4744'
Shale, gray, silty; with Bentonite, white.	4744	4764'
Shale, gray, silty; trace Siltstone and Sandstone, calcareous.	4764	4770'
Shale, gray, silty, calcareous.	4770	4782'
Shale, dark gray, very silty, calcareous; Siltstone, light to medium gray; trace chert, brown.	4782	4792'
Shale, dark gray, very silty, calcareous, pyritic.	4792	4802'
Shale, dark gray, very silty, calcareous; Siltstone, medium gray, calcareous.	4802	4812'
Siltstone, light gray, shaly, calcareous; Shale, gray, very silty, grading to Siltstone.	4812	4830'
Shale, light gray to gray, very silty.	4830	4842'
Shale, dark brownish gray, silty, with occasional black inclusion.	4842	4852'
Shale, dark grayish brown, slightly silty, very calcareous. grading to shaly Limestone.	4852	4864'
Shale, as above, slightly calcareous.	4864	4870'
Shale, brownish gray, very calcareous, slightly silty with trace Arragonite and Inoceramus prisms.	4870	4884'
Shale, as above, some light brown, soft.	4884	4890'
Shale, dark gray brown, silty, calcareous, carbonaceous, and pyritic.	4890	4908'
Shale, becoming darker brown, more carbonaceous, very calcareous.	4908	4924'
Shale, as above, some light brown, soft.	4924	4948'
Shale, dark brown, very carbonaceous, very calcareous.	4948	4962'
Shale, dark brown, carbonaceous, very calcareous, some light brown, soft, argillaceous.	4962	4972'
Shale, as above, trace Arragonite; trace Siltstone, gray.	4972	4986'

FARM _____ WELL NO. _____

COMPANY _____

	FROM	TO
Shale, hard, dark gray brown, carbonaceous, some soft, light brown.	4986	5004'
Shale, dark gray to brown, slightly silty.	5004	5010'
Shale, gray, very silty, calcareous.	5010	5030'
Shale, dark brown, calcareous, carbonaceous, silty, with trace Coquina.	5030	5044'
Shale, dark gray to brown, silty, calcareous, carbonaceous.	5044	5054'
Shale, gray, brown, hard, with micro lenses of Siltstone.	5054	5064'
Shale, gray, brown, carbonaceous, calcareous, with trace Coquina.	5064	5074'
Shale, brown, gray, slightly silty, with trace Arragonite.	5074	5084'
Shale, dark gray, silty, calcareous, with trace Arragonite.	5084	5094'
Shale, dark gray, very silty, very calcareous with Arragonite.	5094	5104'
Shale, dark brown, gray, slightly silty, calcareous, carbonaceous.	5104	5112'
Shale, dark brown, very carbonaceous, very calcareous, with micro lenses of Sandstone; also trace Coquina and Arragonite.	5112	5124'
Shale, as above, with trace Calcite and Pyrite.	5124	5132'
Shale, hard, dark gray, brown, carbonaceous, gaseous, with some soft, light brown Shale, trace Pyrite.	5132	5144'
Shale, as above, with micro lenses of Siltstone, trace Arragonite.	5144	5154'
Shale, as above; trace Sandstone, white, very fine grained in micro streaks.	5154	5164'
Shale, dark brown to gray, hard, carbonaceous, calcareous, with trace Sandstone, white, very fine grain; Arragonite and Pyrite.	5164	5174'
Sandstone, white, very fine grained, with occasional Glauconite grains, abundant Arragonite.	5174	5180'
Sandstone, as above, some shaly; Shale, dark brown, gray, as above, with Arragonite.	5180	5190'
Shale, dark brown, gray, hard, calcareous, carbonaceous; with lenses and streaks of Sandstone, white, very fine grained with occasional glauconitic grains.	5190	5204'
Sandstone, as above, some very light tan, trace Arragonite.	5204	5212'
Shale, dark brown, gray, slightly silty, calcareous, carbonaceous, micro pyritic; Sandstone, as above.	5212	5222'
Sandstone, white to gray, very fine grained, glauconitic, calcareous; Shale, dark gray, sandy, glauconitic.	5222	5232'
Sandstone, white to tan, very fine to fine grained, glauconitic.	5232	5242'
Sandstone, gray, very fine to fine grained, glauconitic, very shaly grading to sandy Shale.	5242	5280
Shale, dark gray to brownish gray, silty to sandy, very calcareous, very carbonaceous.	5280	5292'
Siltstone, gray to white, sandy, shaly in part.	5292	5304'
Shale, brown, gray, carbonaceous, calcareous, with occasional micro streaks of Sandstone, white, very fine grained.	5304	5312'
Shale, dark gray, silty, calcareous.	5312	5322'
Shale, gray, silty, calcareous, with streaks Sandstone, gray, medium to fine grained, very shaly, very glauconitic.	5322	5330'
Shale, gray, very silty, calcareous, with Sandstone, white, medium grained, subrounded, salt and pepper, glauconitic, some very shaly.	5330	5344'
Sandstone, as above, increasingly shaly.	5344	5350'
Shale, gray, very calcareous; with Sandstone, white to gray, salt and pepper, coarse to fine grained, very shaly in part, glauconitic.	5350	5362'
Shale, gray, very calcareous; with Siltstone, light gray, sandy; Sandstone, as above.	5362	5372'
Shale, as above, Clay in streaks, white, firm.	5372	5382'
Shale, dark gray, very slightly calcareous, carbonaceous.	5382	5392'
Sandstone, gray, medium grained, very shaly; trace Calcite,	5392	5404'

FARM _____ WELL NO. _____

COMPANY _____

	FROM	TO
Shale, dark gray, non calcareous, slightly silty, slight pyritic.	5404	5414'
Siltstone, light gray, sandy; Sandstone, gray, medium grained, shaly, very glauconitic; trace Clay, white.	5414	5432'
Sandstone, white to gray, medium to fine grained, very shaly in part.	5432	5444'
Shale, gray to brown, sandy, with Arragonite; trace Limestone brown, shaly.	5444	5454'
Limestone, brown, shaly in part, with trace Calcite.	5454	5464'
Shale, gray to brown, carbonaceous, calcareous, pyritic.	5464	5474'
Shale, dark gray, non calcareous, hard, some calcareous; with lenses of shaly Sandstone, gray, medium grained, glauconitic.	5474	5492'
Shale, dark gray, non calcareous, firm, slight pyritic.	5492	5510'
Shale, dark gray, slightly silty, non calcareous, firm, with some light brown, soft.	5510	5524'
Shale, dark gray, hard, non calcareous, some brown, soft.	5524	5542'
Shale, as above, with finely disseminated Pyrite.	5542	5552'
Shale, becoming dark brown to gray, silty, calcareous, with carbonaceous specks.	5552	5564'
Shale, dark brownish gray, firm, calcareous, some bentonitic, soft, argillaceous, with trace brown Limestone.	5564	5584'
Shale, as above, becoming increasingly soft, argillaceous.	5584	5594'
Shale, becoming mostly dark gray, firm, calcareous, carbonaceous, silty, with some soft, brown.	5594	5604'
Shale, dark gray, with dark brown inclusion; gaseous.	5604	5612'
Shale, as above, with an increase in soft, argillaceous, brown Shale.	5612	5630'
Shale, dark gray, hard, calcareous, with some soft, brown.	5630	5638'
Shale, as above, with fossil fragments.	5638	5650'
Shale, gray to black, very calcareous, soft.	5650	5662'
Shale, dark gray, firm, some hard, calcareous, with trace Limestone, brown.	5662	5670'
Shale, light to medium gray, calcareous, hard, with Clay streaks.	5670	5684'
Shale, light gray, soft, calcareous, with Clay, white; Limestone, brown.	5684	5692'
Shale, gray, hard, calcareous, with some soft, brown, streaks of Clay white.	5692	5702'
Shale, gray to brown, very calcareous.	5702	5710'
Shale, gray, calcareous, with white Clay; trace Sandstone, white, very fine grained, subrounded, clay filled, glauconitic.	5710	5726'
Sandstone, white to light tan, very fine grained, subrounded to subangular, clay filled, moderately calcareous, with occasional glauconitic grains.	5726	5734'
Sandstone, light tan, very fine to fine grained, subrounded, clay filled, calcareous, with occasional green and brown grains.	5734	5746'
Sandstone, white, very fine grained, subangular, clay filled calcareous, trace brown stain, slight glauconitic; with thin streaks Limestone, brown.	5746	5768'
Sandstone, as above, abundant clay filled, very hard, tight.	5768	5780'
Sandstone, white to very light gray, very fine grained grading to Siltstone, clay filled, subrounded, calcareous.	5780	5792'
Siltstone, light gray, shaly.	5792	5802'
Siltstone, gray, sandy, shaly.	5802	5810'
Siltstone, as above, with black specks.	5810	5822'
Siltstone, light gray, glauconitic, argillaceous.	5822	5825'
Sandstone, white, very fine grained, clay filled, subrounded.	5825	5830'
Shale, gray, silty.	5830	5832'
Siltstone, light to medium gray, sandy, shaly in part.	5832	5842'
Shale, light gray, silty; Siltstone, light to medium gray; Sandstone, white, very fine grained, clay filled, calcareous.	5842	5848'

	FROM	TO
Sandstone, white, fine to very fine grained, subrounded, clay filled, non calcareous.	5848	5862'
Sandstone, white, very fine grained, subrounded; Shale, dark brown to black, carbonaceous, silty.	5862	5869'
Shale, light gray to gray, carbonaceous.	5869	5878'
Siltstone, brown to gray.	5878	5882'
Sandstone, very light tan, very fine to fine grained, subrounded, with green and brown grains.	5882	5890'
Sandstone, as above, clay filled, non calcareous, pyritic.	5890	5902'
Sandstone, light tan to white, fine to very fine grained, subrounded, non calcareous, clay filled.	5902	5920'
Sandstone, very light tan, medium to fine grained, clay filled, tight, subrounded, non calcareous.	5920	5930'
Sandstone, as above, poorly sorted.	5930	5937'
Siltstone, very light gray to gray, white, sandy.	5937	5950'
Sandstone, white, medium to fine grained, poorly sorted, clay filled, calcareous.	5950	5960'
Shale, gray, silty in part, with fragment Coal; Siltstone, gray, shaly; Sandstone, white, medium to fine grained, with quartz shards.	5960	5972'
Siltstone, very light greenish gray to gray, slightly calcareous, hard; Sandstone, white, medium grained, with chert pebbles and quartz shards; Shale, green, dense, non calcareous, hard.	5972	5990'
Sandstone, pale green to white, fine grained, very shaly in part, hard, tight.	5990	6002'
Shale, pale green, hard, dense, some dark green, sandy.	6002	6020'
Sandstone, white, medium to coarse grained, subrounded, some clay filled, mostly unconsolidated.	6020	6041'
Shale, gray green to dark gray, sandy in part; with Sandstone white, medium to coarse grained, mostly unconsolidated.	6041	6062'
Sandstone, white to green, medium grained, some unconsolidated.	6062	6072'
Sandstone, white, medium grained, subrounded; Shale green.	6072	6086'
Sandstone, white to green, medium grained, subrounded, clay filled.	6086	6096'
Sandstone, white, becoming fine grained, subangular, clay filled.	6096	6102'
Shale, gray, very light gray and red, with occasional streaks Bentonite, white.	6102	6114'
Shale, gray, red, tan and white, slightly silty and sandy in part.	6114	6130'
Shale, green, tan, red and white, slightly sandy and silty.	6130	6142'
Shale, as above, becoming more sandy and silty.	6142	6150'
Shale, increasingly salmon to red, some gray, tan and white.	6150	6162'
Shale, salmon, white and green; with Sandstone, white, medium grained, unconsolidated.	6162	6182'
Sandstone, white, fine to medium grained, subangular to subrounded, clay filled.	6182	6192'
Shale, green, gray and white, with abundant floating sand grains.	6192	6199'
Sandstone, white, medium to coarse grained, subrounded, unconsolidated.	6199	6208
Sandstone, as above, becoming more consolidated.	6208	6214
Shale, green, very light gray and tan, with some floating sand grains; Sandstone, unconsolidated, medium grained, subrounded.	6214	6224'
Sandstone, white, medium to coarse grained, mostly unconsolidated, rounded to subrounded, frosted.	6224	6242'
Shale, green, white and pale lavender with Sandstone, unconsolidated, medium grained, rounded.	6242	6252'
Shale, as above with Clay, white, firm to soft, slight bentonitic.	6252	6262'
Shale, green, lavender and white, silty in part; with Sandstone, white, medium to fine grained, unconsolidated,	6262	6272'

	FROM	TO
Sandstone, frosted, unconsolidated, subrounded to rounded; with thin streaks Shale, green; Clay, white.	6272	6282'
Sandstone, as above, with Clay white, in very thin streaks.	6282	6302'
Sandstone, frosted, unconsolidated, medium grained, subangular to subrounded, with thin laminations of Clay, white.	6302	6322
Sandstone, medium to coarse grained, unconsolidated, subrounded to subangular, with Clay laminations.	6322	6338'
Sandstone, as above, with occasional orange and tan grains.	6338	6350'
Sandstone, unconsolidated, medium to coarse grained, angular to rounded with an increase in orange grains.	6350	6370'
Sandstone, unconsolidated, medium grained, subangular, with streaks Clay, white.	6370	6384'
Sandstone, as above, with Shale green, gray and white.	6384	6394'
Sandstone, white, medium to fine grained, subangular, clay filled, mostly unconsolidated.	6394	6406'
Sandstone, frosted to clear, unconsolidated, fine to coarse grained, subangular.	6406	6420'
Shale, gray, with streaks white Clay; Sandstone unconsolidated, medium to coarse grained.	6420	6430'
Shale, green and brown, slightly sandy; with Sandstone, as above.	6430	6440'
Shale and Sandstone, as above; with Clay, white, firm, in thin laminations.	6440	6450'
Sandstone, white, fine to medium grained, some clay filled, some unconsolidated.	6450	6464'
Shale, brown, green, red and white, silty to sandy in part, with thin laminations Clay, soft.	6464	6482'
Shale, becoming mostly reddish brown, some green; with Sandstone unconsolidated.	6482	6490'
Shale, green, gray, brown and white, silty in part; with Sandstone white, fine to medium grained, clay filled, subrounded.	6490	6500'
Sandstone, very light pink, medium to fine grained, clay filled, subrounded, calcareous.	6500	6510'
Shale, becoming predominately reddish brown; with Sandstone unconsolidated, frosted, medium grained.	6510	6522'
Shale and Sandstone, as above, trace Limestone, brown.	6522	6533'
Sandstone, white to pink, fine to medium grained, angular to subangular, some clay filled, with an occasional trace of Limestone, brown, dense.	6533	6542'
Sandstone, pink, fine grained, subangular, clay filled; Shale, red, brown, green and white.	6542	6552'
Sandstone, pink, fine grained, subangular, clay filled; with Shale, red, brown, and green.	6552	6566'
Shale, red, brown and green, firm; with Sandstone, pink, fine to medium grained, subrounded, clay filled, and Clay, white.	6566	6590'
Shale, brown, red, green and white.	6590	6602'
Shale, light green, brown and red, silty in part.	6602	6610'
Shale, very silty.	6610	6622'
Shale, red, brown, green and gray, silty with streaks white, Clay.	6622	6632'
Shale, red and gray, silty in part with white Clay.	6632	6642'
Shale, as above, with some floating sand grains.	6642	6650'
Shale, red, green and tan with thin streaks Limestone, tan.	6650	6662'
Shale, as above, with some white Clay.	6662	6672'
Shale, red, brown, green and white with floating sand grains.	6672	6682'
Shale, dark red and green, slightly calcareous, sandy in part.	6682	6692'
Shale, green, gray and dark red, slightly calcareous, splintery.	6692	6702'
Limestone, light tan, dense.	6702	6710'
Shale, dark red, brown, white and gray, some sandy; with Limestone, light tan, crypto-crystalline.	6710	6724'
Sandstone, white, fine to coarse grained, poorly sorted, rounded, some clay filled, non calcareous.	6724	6734'
Sandstone, as above, fine to medium grained.	6734	6744'

	FROM	TO
Sandstone, white, fine to medium grained, poorly sorted, rounded, clay filled to clean.	6744	6752'
Sandstone, white, very fine grained, rounded, friable, some clay filled.	6752	6764'
Sandstone, white to pink, fine to medium grained, poorly sorted, rounded.	6764	6774'
Sandstone, white, fine to medium grained, rounded, with unconsolidated coarse grain.	6774	6794'
Shale, predominately white, sandy, some red; with Sandstone, white, fine to medium grained, rounded.	6794	6806'
Shale, white to light gray, some red, silty to sandy.	6806	6814'
Sandstone, white, fine to coarse grained, very poorly sorted, rounded.	6814	6824'
Sandstone, white to salmon, very fine grain, angular, some clay filled.	6824	6847'
Shale, dark red, silty in part; Siltstone, salmon, shaly.	6847	6854'
Shale, dark red, silty; Siltstone, salmon, calcareous.	6854	6866'
Shale, dark red, very silty; Siltstone, as above.	6866	6880'
Shale, dark red, calcareous, silty with trace of Limestone.	6880	6890'
Shale, red, silty, soft.	6890	6904'
Shale, dark red, soft, sandy in part.	6904	6910'
Shale, as above, some silty grading to Siltstone.	6910	6922'
Shale, dark red, sandy to silty, with streaks Clay, white, soft.	6922	6932'
Limestone, dark brown, dense, crypto-crystalline, some tan, chalky with trace of sandy Limestone.	6932	6944'
Limestone, as above, becoming darker and more sandy.	6944	6954'
Limestone, dark brown, very sandy grading to calcareous Sandstone.	6954	6962'
Sandstone, white, fine grained, slightly calcareous, rounded, some clay filled.	6962	6974'
Sandstone, as above, subrounded.	6974	6984'
Sandstone, white, fine grained, subrounded, slightly calcareous, clean to slight clay filled.	6984	6994'
Sandstone, white, fine grained, rounded, clay filled, with occasional red grains.	6994	7004'
Sandstone, white, very fine to fine grained, subrounded, calcareous.	7004	7114'
Sandstone, white, very fine grained, rounded, with occasional green and red grains.	7114	7024'
Sandstone, white to very light salmon, very fine grained, abundant clay filled.	7024	7034'
Sandstone, as above, becoming mostly very light salmon.	7034	7044'
Sandstone, salmon to orange, very fine grained, abundant clay filled.	7044	7049'
Sandstone, salmon, very fine grained, subrounded, with streaks Anhydrite, white.	7049	7066'
Sandstone, as above, silty, with Anhydrite, white to light salmon.	7066	7072'
Sandstone, as above, calcareous, with Anhydrite, as above.	7072	7082'
Sandstone, white to light salmon, very fine grained, rounded, trace Anhydrite.	7082	7089'
Sandstone, white to dark salmon, fine grained, shaly.	7089	7102'
Siltstone, orange, sandy, anhydritic.	7102	7112'
Siltstone, as above, with thin streaks Anhydrite.	7112	7124'
Siltstone, orange, very shaly.	7124	7132'
Siltstone, as above, anhydritic.	7132	7146'
Shale, dark reddish brown, silty in part, slightly calcareous, with thin streaks Siltstone, orange, anhydritic.	7146	7170'
Shale, dark brown, firm, with floating Sand grains; Siltstone, orange, anhydritic.	7170	7184'
Shale, brown to orange, firm, silty in part; with Siltstone, orange, shaly.	7184	7192'
Shale, dark red, brown, firm; with Siltstone, orange, shaly.	7192	7202'
Shale, dark brown, orange, firm to moderately firm, silty.	7202	7212'

FARM _____ WELL NO. _____

COMPANY _____

	FROM	TO
Shale, as above, slightly anhydritic in part, grading to Clay.	7212	7224'
Shale, dark brown and orange, firm; with Siltstone, orange, shaly, calcareous.	7224	7232'
Shale, orange, firm, silty, with some brown.	7232	7244'
Shale, as above, very silty; with trace Siltstone.	7244	7252'
Shale, light orange; with Siltstone, orange, silty.	7252	7262'
Shale and Siltstone, as above, with trace Anhydrite.	7262	7270'
Shale, orange to red, silty.	7270	7282'
Shale, red; with Siltstone orange.	7282	7290'
Shale, orange, very silty.	7290	7304'
Shale, orange to brown, silty; Siltstone, orange, shaly.	7304	7322'
Shale, dark brown, light orange, firm, argillaceous, with Anhydrite, white, and Siltstone, orange, sandy.	7322	7340'
Shale, dark brown, firm, with floating sand grains, some light orange and Siltstone sandy.	7340	7352'
Siltstone, orange, sandy and shaly.	7352	7364'
Siltstone, orange, sandy, shaly; Shale, dark brown and light orange.	7364	7382'
Siltstone, orange, shaly, sandy, grading to silty Shale.	7382	7392'
Siltstone, orange and brown, shaly.	7392	7402'
Shale, dark orange, silty.	7402	7412'
Siltstone, light orange to orange, shaly; Shale, orange and brown.	7412	7424'
Shale, orange, very silty; Siltstone, orange, shaly.	7424	7432'
Shale, orange to red, with Anhydrite inclusions, white.	7432	7444'
Shale, brick red and orange, very silty.	7444	7452'
Siltstone, pink, white and red with trace Anhydrite, white.	7452	7464'
Shale, red and pink with streaks white; Siltstone; orange to red with some Clay.	7464	7474'
Shale, red, with white and pink Siltstone.	7474	7484'
Shale, red orange, silty, with orange Clay.	7484	7490'
Shale, red to orange, very silty, with orange to red Clay.	7490	7502'
Shale, red silty with red Clay; Siltstone, orange and light red.	7502	7514'
Shale, orange and red with inclusions of Anhydrite, silty in part.	7514	7524'
Siltstone, orange, sandy, shaly; Shale and Anhydrite, as above.	7524	7534'
Shale, salmon and red, silty in part, mottled with white Anhydrite inclusions.	7534	7544'
Shale, becoming red, platy, with Siltstone purple, sandy.	7544	7552'
Siltstone, purple to gray, sandy, grading to very fine grained Sandstone.	7552	7564'
Sandstone, red, gray, white and lavender, fine grained, argillaceous, with inclusions of Anhydrite, white.	7564	7572'
Sandstone, as above, very fine to fine grained, subangular.	7572	7582'
Sandstone, white, pink, gray and lavender, very fine grained, subangular, with Anhydrite inclusions.	7582	7590'
Sandstone, mostly white with red Shale inclusions, very fine grained, subangular.	7590	7602'
Siltstone, red, very shaly, sandy.	7602	7612'
Shale, bright red, slightly calcareous, slightly silty.	7612	7622'
Anhydrite, white to cream.	7622	7634'
Siltstone, red, very shaly.	7634	7644'
Shale, red, silty in part, calcareous, slightly anhydritic.	7644	7650'
Shale, as above, red to orange.	7650	7662'
Shale, orange, silty with trace Anhydrite.	7662	7670'
Shale, orange, very silty.	7670	7684'
Siltstone, red, very shaly; Shale, orange.	7684	7692'
Shale, orange to red, very silty in part.	7692	7704'
Shale, red to orange, silty, calcareous.	7704	7710'
Shale, red, silty, soft.	7710	7722'
Shale, red to orange, silty in part, with trace Anhydrite.	7722	7732'
Shale, red to orange, silty, calcareous.	7732	7742'

	FROM	TO
Shale, orange to red, very silty with Anhydrite streaks, white to pink.	7742	7752'
Shale, red, silty, with Anhydrite, as above.	7752	7760'
Shale, red, very silty, calcareous with some red Clay.	7760	7772'
Shale, red, with Anhydrite, pink and white.	7772	7784'
Shale, red, calcareous, with Anhydrite and red Clay.	7784	7794
Shale, red silty, some mottled with Anhydrite, white.	7794	7804'
Shale, red, orange, very silty, with Anhydrite and trace Limestone brown.	7804	7812'
Shale, mostly orange, some red, silty in part, with streaks and inclusions of Anhydrite.	7812	7822'
Siltstone, orange red, sandy, anhydritic.	7822	7832'
Shale, red, silty, with trace Anhydrite, white.	7832	7850'
Shale, red, slightly silty with brown Limestone nodules.	7850	7862'
Shale, red with trace green, trace Limestone, brown.	7862	7870'
Shale, as above, with Limestone nodules; trace Gypsum.	7870	7882'
Shale, red, silty in part.	7882	7900'
Shale, as above, with some dark reddish brown; some floating sand grains.	7900	7910'
Shale, red to brown, firm, silty in part.	7910	7924'
Shale, predominately red, some brown, firm, silty in part.	7924	7934'
Shale, light to dark red, silty in part.	7934	7946'
Shale, orange to red, with micro inclusions of Anhydrite, white.	7946	7964'
Shale, orange, red and purple red, silty in part.	7964	7972'
Shale, as above, slightly anhydritic.	7972	7982'
Shale, red to purple red, silty.	7982	7988'
Shale, as above, calcareous.	7988	8002'
Shale, red to purple, with thin streaks Limestone, gray and brown.	8002	8012'
Shale, red, orange and purple, mottled in part, gypsiferous.	8012	8024'
Shale, red, orange and brown with Gypsum.	8024	8032'
Shale, becoming predominately purple and red, very silty, gypsiferous.	8032	8042'
Limestone, very light gray to green, sandy with trace Sandstone, white, medium grained.	8042	8052'
Shale, gray, purple, red and orange.	8052	8065'
Shale, as above; Limestone, green and gray, mottled, shaly, grading to calcareous Shale.	8065	8072'
Shale and Limestone as above.	8072	8080'
Limestone, brown, dense, crypto-crystalline.	8080	8092'
Limestone, gray and brown, hard, dense.	8092	8102'
Limestone, white, light gray, gray and brown, moderately hard, mottled in part.	8102	8112'
Limestone, gray and white, mottled, appears reworked, fossiliferous in part.	8112	8120'
Sandstone, white, red and pink, very fine grained, very shaly, angular, clay filled.	8120	8132'
Shale, dark brown, silty, some orange and red; Sandstone, as above, trace Limestone, as above.	8132	8144'
Shale, as above, with Limestone, white, red and brown, some sucrosic, some reworked.	8144	8152'
Shale, gray, green, red, orange and brown, some silty, with Limestone mottled brown, white and red.	8152	8166'
Limestone, gray, white and red, mottled.	8166	8172'
Shale, pale green, gray, red and brown, some sandy.	8172	8182'
Shale, predominately brown, sandy. (Abundant cavings)	8182	8190'
Shale, mostly dark brown, sandy, with trace light brown, silty.	8190	8202'
Shale, dark brown, very silty to sandy.	8202	8212'
Sandstone, white to light green, fine grained, subrounded, clay filled.	8212	8222'
Shale, dark brown, very silty in part.	8222	8232'
Sandstone, white, very fine to fine grained, subrounded, clay filled, Siltstone, white, with green and orange	8232	8242'

	FROM	TO
Shale, dark to light gray, sandy; Sandstone, white to light gray, very fine grained, subrounded, clay filled.	8242	8252'
Shale, dark to light brown, sandy in part.	8252	8260'
Sandstone, white, very fine grained, subrounded, clay filled, tight.	8260	8272'
Sandstone, white, coarse grained, subangular to angular, clay filled.	8272	8284'
Shale, purple, orange and brown, silty, non calcareous.	8284	8302'
Shale, red, purple, gray and brown.	8302	8314'
Shale, as above, trace Sandstone, unconsolidated, red, coarse grained, rounded.	8314	8324'
Shale, brown, purple, pale green with trace Clay, white.	8324	8332'
Sandstone, white to red, fine grained, rounded, clay filled.	8332	8344'
Sandstone, red, medium to coarse grained, subrounded, mostly unconsolidated.	8344	8362'
Sandstone, unconsolidated, coarse grained, rounded.	8362	8370'
Sandstone, red, unconsolidated, coarse to very coarse grained, rounded.	8370	8378'
Sandstone, red, fine to coarse grained, poorly sorted, rounded, clay filled.	8378	8390'
Sandstone, unconsolidated, red, fine to very coarse grained, pseudo conglomerate, rounded.	8390	8404'
Sandstone, unconsolidated, fine to very coarse grained, rounded, clay filled.	8404	8413'
Shale, brown and red, some sandy, with Limestone, brown, white and red, mottled, hard.	8413	8423'
Sandstone, red, unconsolidated, fine to coarse grained.	8423	8438'
Shale, brown and red.	8438	8442'
Sandstone, red, unconsolidated, medium to coarse grained, rounded.	8442	8450'
Sandstone, as above, subangular to round.	8450	8457'
Shale, brown and red, firm, with trace Limestone, mottled.	8457	8472'
Shale, brown, red and purple, firm.	8472	8482'
Siltstone, brown, shaly; Sandstone, white, very fine grained, trace Limestone, gray.	8482	8510'
Shale, red, purple, brown, calcareous in part.	8510	8524'
Shale, gray, orange and purple with trace carbonaceous matter in gray Shale, trace Chlorite.	8524	8532'
Shale, orange, brown, gray and purple, silty in part.	8532	8544'
Shale, orange, gray and brown, silty; with trace Siltstone.	8544	8552'
Shale, orange, silty; with Siltstone, orange, shaly.	8552	8568'
Shale, brown, orange, soft, with trace Anhydrite.	8568	8582'
Shale, red, silty, with streaks of Siltstone.	8582	8590'
Shale, red, silty, with trace Anhydrite, white to pink.	8590	8603'
Sandstone, white to orange, very coarse grained, subangular, subrounded, with trace Anhydrite.	8603	8608'
Sandstone, clear, unconsolidated, some unconsolidated coarse to very coarse grained, angular to subangular.	8608	8624'
Shale, predominately orange and red with thin streaks Siltstone, orange, shaly, trace Anhydrite.	8624	8634'
Shale, orange, brown and purple, with trace Gypsum, white.	8634	8644'
Shale, predominately orange, with Siltstone streaks, orange, shaly.	8644	8652'
Shale, orange, brown and purple.	8652	8662'
Shale, orange and brown; Siltstone, orange, silty.	8662	8672'
Siltstone, orange, shaly; Shale, orange, slightly silty, with trace Anhydrite.	8672	8682'
Shale, orange, silty.	8682	8692'
Siltstone, orange, very shaly grading to silty Shale.	8692	8704'
Shale, orange, very silty.	8704	8712'
Shale, orange, silty with Glauconite.	8712	8724'
Shale, orange, red and brown, very silty.	8724	8730'
Shale, orange and brown, silty.	8730	8742'
Shale, orange and brown, sandy, with trace Anhydrite.	8742	8762'
Shale, orange to brown, sandy to silty.	8762	8772'

FARM _____ WELL NO. _____

COMPANY _____

	FROM	TO
Sandstone, white, salt and pepper, medium to coarse grained, subangular, clay filled.	8772	8781'
Sandstone, red, medium to very coarse grained, subrounded, mostly unconsolidated, shaly.	8781	8792'
Shale, orange red, silty in part, firm to soft.	8792	8804'
Shale, orange to red, some brown, very sandy grading to shaly Sandstone.	8804	8825'
Sandstone, red, coarse to very coarse grained, angular to subrounded, shaly in part, mostly unconsolidated.	8825	8833'
Sandstone, unconsolidated, coarse grained, subrounded to rounded.	8833	8842'
Shale, orange red, firm sandy in part.	8842	8862'
Shale, as above, trace Anhydrite, pink.	8862	8870'
Shale, orange, very silty in part, grading to shaly Siltstone.	8870	8882'
Shale, as above, trace Sandstone, coarse grained, unconsolidated.	8882	8890'
Sandstone, red, coarse to very coarse grained, angular, shaly in part, mostly unconsolidated.	8890	8902'
Sandstone, as above, with trace Anhydrite.	8902	8912'
Sandstone, white, coarse to medium grained, clay filled, mostly unconsolidated, with Siltstone, orange, shaly.	8912	8922'
Shale, red to orange, silty in part, grading to shaly Siltstone.	8922	8932'
Shale, orange red, silty, with Siltstone, light orange, shaly.	8932	8944'
Shale, light orange red, silty.	8944	8950'
Shale, red orange, silty, some brown, with trace Siltstone.	8950	8964'
Shale, orange, silty.	8964	8972'
Shale, as above, with trace Anhydrite.	8972	8984'
Shale, orange, silty, with Siltstone, brown, argillaceous.	8984	8994'
Shale, orange, red, very silty; Siltstone, light orange, with trace Limestone brown.	8994	9004'
Shale, red orange, with trace Anhydrite, pyritic, trace Siltstone.	9004	9012'
Shale, orange red, silty to sandy, with some brown, sandy.	9012	9022'
Shale, red orange, very silty with trace Pyrite.	9022	9032'
Shale, red brown, very silty with trace Pyrite.	9032	9042'
Shale, orange red, silty in part.	9042	9050'
Sandstone, white, medium grained, angular, tight; Shale, orange and red, with trace Anhydrite.	9050	9055'
Shale predominately red, some silty.	9055	9070'
Shale, red, orange and brown, with trace Calcite, pink Anhydrite white.	9070	9084'
Shale, orange, with occasional silty to sandy streaks.	9084	9090'
Shale, as above, becoming increasingly sandy in part grading to shaly Sandstone.	9090	9102'
Shale, orange red, with streaks orange brown, some silty.	9102	9112'
Limestone, light pink, some chalky.	9112	9122'
Shale, orange red to brown red, silty in part, with trace Limestone, pink.	9122	9132'
Shale, as above, very silty grading to shaly Siltstone.	9132	9142'
Shale, mostly orange red, sandy.	9142	9152'
Sandstone, red, medium grained, very shaly; Shale, as above, very sandy in part.	9152	9162'
Shale, red orange, slightly calcareous.	9162	9168'
Shale, brownish red, sandy, slightly micaceous, with streaks Siltstone, orange.	9168	9182'
Siltstone, orange, micaceous, very shaly.	9182	9189'
Sandstone, red, coarse grained, angular to subangular, shaly, mostly unconsolidated, with Gypsum streaks.	9189	9200'
Shale, red orange, silty to sandy in part.	9200	9212'
Shale, orange and red, very silty and micaceous.	9212	9224'
Shale, orange red, silty in part, with inclusions of Anhydrite.	9224	9234'

	FROM	TO
Siltstone, orange to white, very shaly in part.	9234	9244'
Shale, orange to red, firm, sandy in part.	9244	9250'
Shale, orange red, silty to sandy.	9250	9262'
Siltstone, red, very shaly, micaceous.	9262	9270'
Shale, orange red, and brown red, anhydritic in part.	9270	9284'
Siltstone, red, shaly.	9284	9290'
Shale, red, brown, firm, silty, micaceous.	9290	9302'
Siltstone, orange, shaly grading to silty shale.	9302	9324'
Shale, orange red, silty, with trace Anhydrite, white and Limestone, red and brown.	9324	9332'
Limestone, red, gray and brown, moderately hard, some chalky, trace Anhydrite white.	9332	9344'
Shale, red orange; Limestone, red brown, medium hard.	9344	9350'
Shale, brown red, very silty; with trace Anhydrite, white.	9350	9364'
Shale, brown red, very silty; with Limestone, brown, moderately hard.	9364	9374'
Shale, brown, red, very silty grading to Siltstone.	9374	9384'
Shale, as above, trace Limestone, brown and Anhydrite, white.	9384	9392'
Siltstone, white, with Shale brown, silty.	9392	9402'
Shale, red brown; with Limestone, brown and green, moderately hard; Siltstone light brown.	9402	9412'
Shale, brown, red, very silty.	9412	9420'
Sandstone, white, very fine grained, subangular; Limestone, brown and green, anhydritic.	9420	9442'
Shale, red, pink and brown, silty, calcareous.	9442	9448'
Shale, mostly brown, some red, calcareous.	9448	9464'
Limestone, light gray and red, mottled, hard; Siltstone, white, sandy; Shale, red and brown.	9464	9472'
Shale, becoming more brown, silty and calcareous.	9472	9484'
Shale, as above, with trace Limestone.	9484	9490'
Shale, brown, slightly silty, micaceous, calcareous.	9490	9502'
Shale, as above; trace Limestone gray.	9502	9512'
Limestone, brown and white, slightly mottled, hard, cryptocrystalline.	9512	9522'
Limestone, brownish gray and white, mottled, as above, with Siltstone, white, gray.	9522	9530'
Shale, mostly brown, some red, with thin streaks Limestone, white to gray, mottled.	9530	9544'
Shale, mostly brown, very micaceous, slightly silty.	9544	9560'
Sandstone, white to red, fine to coarse grained, poorly sorted, angular, shaly in part, gypsiferous in part.	9560	9572'
Sandstone, white, fine grained, angular, shaly, micaceous, with trace Limestone, brown; Shale, brown, very micaceous.	9572	9582'
Shale, brown, micaceous, silty, calcareous; Limestone, brown, hard.	9582	9592'
Shale, brown, soft, micaceous; Siltstone, brown, micaceous.	9592	9604'
Shale, brown, soft, silty, micaceous.	9604	9612'
Limestone, brown, hard, in thin laminations.	9612	9622'
Shale, brown, calcareous, silty, sandy.	9622	9630'
Shale, brown, calcareous, firm, micaceous.	9630	9640'
Sandstone, white, salt and pepper, fine grained, angular, micaceous, with occasional green inclusions.	9640	9652'
Sandstone, white, green, fine grained, subrounded, micaceous.	9652	9662'
Shale, brown, sandy, non calcareous.	9662	9670'
Shale, brown, red, silty; Limestone, brown, green, hard.	9670	9682'
Shale, brown, silty to sandy.	9682	9690'
Shale, brown, slightly silty, calcareous.	9690	9702'
Shale, brown, slightly calcareous.	9702	9710'
Shale, brown, very micaceous, silty in part.	9710	9720'
Shale, becoming slightly more reddish brown, with a trace of Limestone.	9720	9744'
Shale, reddish brown, with a trace of Limestone.	9744	9748'
Shale, brown, micaceous.	9748	9762'

FARM _____ WELL NO. _____

COMPANY _____

	FROM	TO
Shale, brown, becoming slightly calcareous, micaceous.	9762	9782'
Shale, brown, calcareous, micaceous, with a trace of Limestone.	9782	9792'
Sandstone, white to brown, salt and pepper, fine grained, argillaceous with trace Anhydrite.	9792	9802'
Sandstone, white to slightly pink, fine grained, angular, some clay filled.	9802	9812'
Shale, brown, very micaceous with Sandstone, as above.	9812	9822'
Shale, brown, micaceous in part.	9822	9829'
Sandstone, white, salt and pepper, very fine grained, argillaceous, micaceous.	9829	9838'
Shale, light brown to brown, hard, very micaceous.	9839	9850'
Limestone, red, brown and white, dense.	9850	9862'
Shale, brown, very silty in part.	9862	9884'
Shale, brown, very micaceous in part, with Sandstone, white to red, fine grained, shaly.	9884	9900'
Shale and Sandstone, as above, becoming more coarsely micaceous.	9900	9910'
Sandstone, white, fine grained, very micaceous; Limestone, light gray, hard; Shale, brown, micaceous.	9910	9924'
Limestone, light to dark gray, dense.	9924	9930'
Limestone, mostly light gray.	9930	9944'
Siltstone, white to brown, shaly in part.	9944	9952'
Siltstone, as above, very micaceous (Phlogopite).	9952	9960'
Limestone, brown, moderately hard.	9960	9966'
Shale, brown, some soft.	9966	9973'
Limestone, brown, dense.	9973	9984'
Limestone, brown, crypto-crystalline, with inclusions of Anhydrite and Gypsum, white.	9984	10000'
Limestone, brown and gray, with Anhydrite and Gypsum.	10000	10010'
Limestone, mostly gray, some brown, as above.	10010	10022'
Limestone, light brown to brown, with a trace of Gypsum.	10022	10030'
Limestone, dark brown, hard; with Shale, dark gray to black, silty with inclusions of Gypsum, white.	10030	10044'
Limestone, light tan, light gray and gray with Anhydrite and Gypsum.	10044	10062'
Limestone, light brown and brown, light gray, some white chalky.	10062	10072'
Limestone, as above, becoming increasingly white.	10072	10084'
Limestone, white to light brown, hard to chalky.	10084	10100'
Siltstone, white, sandy, very micaceous with Limestone light gray and dark brown, crypto-crystalline.	10100	10112'
Limestone, gray, becoming shaly grading to shaly Limestone.	10112	10122'
Shale, brown, hard; Siltstone, brown, sandy, Limestone, brown and gray, dense.	10122	10132'
Limestone gray, light gray to white, dense to finely sucrosic, some chalky.	10132	10148'
Limestone, as above, some sucrosic.	10148	10162'
Shale, brown, silty in part; with thin streaks Limestone, gray to brown, dense.	10162	10170'
Limestone, dark gray, gray to brown, some shaly.	10170	10178'
Shale, dark gray, calcareous in part, some non calcareous.	10178	10180'
Limestone, brown, gray and white, dense to slightly sucrosic, pelletoidal in part.	10180	10192'
Shale, dark gray, silty, calcareous, with trace Selenite.	10192	10202'
Limestone, white, light gray to dark gray, crypto-crystalline; Shale, dark gray, silty.	10202	10212'
Limestone, white to light gray, micro-crystalline to finely sucrosic.	10212	10222'
Limestone, gray, light gray and white, micro-crystalline to chalky.	10222	10230'
Limestone, as above, trace Crinoid Stems.	10230	10242'
Limestone, light to dark gray, micro-crystalline, some	10242	10259'

FARM _____ WELL NO. _____

COMPANY _____

	FROM	TO
Sandstone, white, salt and pepper, coarse to fine grained, poorly sorted, angular to subrounded, clay filled, with occasional green grains, friable.	10259	10266'
Sandstone, white to green, slightly salt and pepper, as above.	10266	10278'
Sandstone, mostly white, medium to coarse grained, angular, tight.	10278	10282'
Shale, brown and red brown, silty in part.	10282	10302'
Limestone, mostly white, some chalky; with Shale, brown.	10302	10315'
Limestone, as above, some brown and white, mottled.	10315	10330'
Limestone, white, moderately soft, some chalky, with streaks of dark gray Shale.	10330	10338'
Shale, brown, some slightly silty.	10338	10344'
Shale, brown, very micaceous (Phlogopite).	10344	10352'
Siltstone, white to brown, very micaceous, sandy in part.	10352	10362'
Limestone, white to light gray, hard to moderately soft; with Siltstone, light gray, calcareous.	10362	10370'
Limestone, white to light gray, soft.	10370	10380'
Limestone gray, hard, crypto-crystalline, with Gypsum and Anhydrite; Shale, dark gray, splintery.	10380	10392'
Limestone, gray, hard; Shale, gray, very silty; trace Anhydrite, white.	10392	10400'
Shale, gray, calcareous; Limestone gray to light gray, micro-crystalline.	10400	10410'
Shale, gray, very silty, calcareous; Limestone, as above.	10410	10421'
Limestone, light gray, dark gray, micro-crystalline.	10421	10426'
Limestone, white to light gray and dark gray, hard, crypto-crystalline to soft chalky.	10426	10442'
Limestone, light gray, micro-crystalline to slight sucrosic.	10442	10452'
Limestone, light gray, hard, with Anhydrite inclusions, white.	10452	10462'
Limestone, white to gray, hard to soft.	10462	10470'
Limestone, white to gray, slightly mottled, moderately soft to crypto-crystalline.	10470	10482'
Limestone, white to gray and tan, slightly mottled, crypto-crystalline to slightly sucrosic.	10482	10500'
Limestone, white, gray and brown, micro-crystalline, to slightly sucrosic.	10500	10512'
Limestone, white to gray, micro-crystalline, hard to soft.	10512	10524'
Limestone, as above, with streaks Shale, light gray, calcareous.	10524	10542'
Limestone, white to gray, micro-crystalline.	10542	10550'
Limestone, light gray and brown; Shale, light gray, calcareous.	10550	10564'
Limestone, gray and white, micro-crystalline to chalky.	10564	10582'
Limestone, white, gray and brown, crypto-crystalline, pelletoidal.	10582	10592'
Limestone, white to gray, crypto-crystalline, becoming more pelletoidal.	10592	10602'
Limestone, mostly light gray, micro-crystalline.	10602	10612'
Limestone, gray to light gray to white, as above, pelletoidal.	10612	10630'
Shale, gray, silty, with Limestone, as above.	10630	10642'
Limestone, light to dark gray, crypto-crystalline.	10642	10660'
Limestone, light gray and white, slightly mottled, micro-crystalline, some chalky.	10660	10680'
Limestone, light gray, dark gray and white, micro-crystalline.	10680	10690'
Limestone, as above, becoming more dark gray.	10690	10700'
Limestone, light gray to brown, micro-crystalline; Shale, dark gray to black.	10700	10710'
Limestone, light gray to white, slightly sucrosic.	10710	10724'
Limestone, light gray to white, micro-crystalline.	10724	10732'
Limestone, white to gray, crypto-crystalline to slightly sucrosic, some chalky.	10732	10742'

	FROM	TO
Shale, dark gray, silty with Limestone, white and gray, as above.	10742	10749'
Sandstone, white, medium grained, subrounded, calcareous; with Limestone, white to light gray, crypto-crystalline to chalky.	10749	10755'
Limestone, as above, becoming increasingly white.	10755	10772'
Limestone, dark gray to light gray, crypto-crystalline.	10772	10784'
Limestone, as above, micro-crystalline; Shale, dark gray, silty.	10784	10792'
Limestone, dark gray, light gray and white, crypto-crystalline to chalky.	10792	10804'
Limestone, white, gray and brown, as above.	10804	10812'
Limestone, white to gray, crypto-crystalline to slightly sucrosic.	10812	10822'
Limestone, as above, becoming more finely sucrosic.	10822	10832'
Limestone, light gray to white, crypto-crystalline, to very finely sucrosic.	10832	10842'
Limestone, as above, micro-crystalline, to some very finely sucrosic.	10842	10849'
Limestone, light gray to white, crypto-crystalline, finely crystalline to very finely sucrosic.	10849	10862'
Limestone, as above, with trace fragmental and pelletoidal Limestone.	10862	10866'
Limestone gray, light gray to white, crypto-crystalline, some fragmental, some chalky.	10866	10882'
Limestone, white, brown and gray, crypto-crystalline, very finely crystalline, some fragmental, pelletoidal Limestone and Crinoid fragments.	10882	10894'
Limestone, gray, tan and white, crypto-crystalline to very finely sucrosic.	10894	10902'
Limestone, gray to white, micro-crystalline to finely sucrosic, some fragmental.	10902	10920'
Limestone, gray and white, micro-crystalline and finely sucrosic.	10920	10932'
Limestone, white to gray, micro-crystalline, fragmental in part, some chalky, scattered micro fossil debris.	10932	10968'
Limestone, gray to white, micro-crystalline, some black coated, finely sucrosic.	10968	10998'
Limestone, white to light gray, micro-crystalline.	10998	11004'
Limestone, white to light gray, micro-crystalline.	11004	11012'
Limestone, light gray to brown, micro-crystalline.	11012	11022'
Limestone, light gray and light brown, crypto-crystalline.	11022	11032'
Limestone, light gray, light brown and black, as above, some slightly sucrosic.	11032	11042'
Limestone, light gray, very fine crystalline; Shale, light gray.	11042	11052'
Limestone, light gray to white, micro-crystalline, with thin streaks Shale, light gray, calcareous.	11052	11064'
Limestone, as above, becoming brown, crypto-crystalline.	11064	11072'
Limestone, light brown, crypto-crystalline to white, slightly chalky.	11072	11085'
Limestone, white, light gray and light brown, crypto-crystalline to finely crystalline, some chalky.	11085	11094'
Limestone, white, light tan and light gray, crypto-crystalline to finely sucrosic.	11094	11102'
Limestone, white, light gray, light tan, crypto-crystalline to very finely sucrosic, with trace dark gray Shale.	11102	11112'
Limestone, white, light gray and tan, crypto-crystalline, some chalky, some fractured.	11112	11122'
Shale, dark gray, calcareous.	11122	11126'
Limestone, white, gray to light gray, crypto-crystalline to slightly sucrosic, some chalky.	11126	11146'
Limestone, white to light gray, chalky to crypto-crystalline.	11146	11154'
Shale, gray to dark gray, silty in part.	11154	11160'

	FROM	TO
Limestone, white to light gray, crypto-crystalline, some slightly sucrosic, some pelletoidal.	11160	11169'
Limestone, as above, slightly more sucrosic.	11169	11180'
Limestone, white to light gray, micro-crystalline.	11180	11190'
Limestone, white to light gray, crypto-crystalline to slightly sucrosic.	11190	11202'
Limestone, white to light gray, crypto-crystalline, with trace Shale, black, soft.	11202	11212'
Limestone, white, light gray and brown, micro-crystalline, some chalky.	11212	11222'
Limestone, as above, fossil fragments, sucrosic; with Shale, gray, soft.	11222	11230'
Limestone, becoming slightly darker gray and brown, crypto-crystalline, fossil fragment; with Shale, dark gray to black.	11230	11244'
Limestone, light gray and brown, crypto-crystalline to very finely sucrosic, oolitic, with Shale, soft, black.	11244	11250'
Limestone, light brown and white, fine crystalline, with few fossil fragments; Shale, black, gray.	11250	11265'
Limestone, light gray to light brown, fine-crystalline, slightly sucrosic, with fossil fragment.	11265	11271'
Limestone, white to light brown, crypto-crystalline to slightly sucrosic, gaseous.	11271	11310'
Limestone, brown, crypto-crystalline, some oolitic; Shale, gray, calcareous.	11310	11318'
Limestone, brown and gray, crypto-crystalline; with Shale, dark gray to gray.	11318	11325'
Limestone, brown, crypto-crystalline.	11325	11335'
Limestone, light gray to brown, crypto-crystalline, oolitic.	11335	11342'
Limestone, light gray and brown, crypto-crystalline, slightly sucrosic.	11342	11352'
Limestone, white to light brown, some very fine sucrosic, with trace oolites.	11352	11362'
Limestone, light gray and brown, slight very finely sucrosic.	11362	11369'
Limestone, light to dark brown, crypto-crystalline; Shale, black, calcareous.	11369	11382'
Limestone, light to dark brown, crypto-crystalline, some finely sucrosic; Shale, black, calcareous, soft.	11382	11398'
Limestone, gray, brown and white, crypto-crystalline, some very finely sucrosic.	11398	11407'
Limestone, mostly gray, crypto-crystalline, some very finely sucrosic.	11407	11425'
Limestone, gray and brown, crypto-crystalline, some finely sucrosic, coarse-crystalline, oolites.	11425	11453'
Limestone, gray and dark brown, mostly crypto-crystalline, some finely sucrosic, and oolitic.	11453	11462'
Limestone, light gray and brown, crypto-crystalline; Shale, gray to dark gray, calcareous.	11462	11474'
Limestone, white and brown, some crypto-crystalline and some finely sucrosic.	11474	11484'
Limestone, light brown to brown, as above, some chalky.	11484	11493'
Limestone, white to light brown, micro-crystalline, some chalky, some finely sucrosic.	11493	11510'
Limestone, white to light gray, micro-crystalline to very finely sucrosic.	11510	11521'
Limestone, tan, white and gray, micro-crystalline and some very fine sucrosic.	11521	11535'
Limestone, gray, white and brown, as above, some dark gray, shaly.	11535	11540'
Limestone, gray and white, very finely crystalline to finely sucrosic.	11540	11552'
Limestone, gray, dark gray and white, crypto-crystalline, finely crystalline to finely sucrosic.	11552	11562'

FARM

WELL NO.

COMPANY

	FROM	TO
Limestone, gray to dark gray, crypto-crystalline, some fine sucrosic, some coarse-crystalline.	11562	11568'
Limestone, gray and white, crypto-crystalline, some very fine crystalline, some chalky and some pelletoidal.	11568	11580'
Limestone, gray to white, slightly mottled, as above, some very fine sucrosic.	11580	11612'
Limestone, gray to white, some mottled, crypto-crystalline, some chalky.	11612	11622'
Limestone, as above, some finely sucrosic.	11622	11630'
Limestone, gray and white, crypto-crystalline, some very finely crystalline.	11630	11645'
Limestone, gray, crypto-crystalline to white, chalky.	11645	11652'
Limestone, as above, some coarse-crystalline, some slightly sucrosic.	11652	11668'
Limestone, white, very light gray to gray, chalky, slightly sucrosic to crypto-crystalline.	11668	11675'
Limestone, gray, light gray and white, crypto-crystalline, some sucrosic, with dead stain, no cut.	11675	11687'
Limestone, gray to light gray, crypto-crystalline, slightly sucrosic.	11687	11692'
Limestone, as above, some chalky; Shale, dark gray, silty.	11692	11702'
Limestone, light gray, crypto-crystalline, some very fine sucrosic, some chalky.	11702	11710'
Limestone, light gray, gray and brown, as above.	11710	11719'
Limestone, light gray and brown, very fine sucrosic, chalky; Shale, gray to dark gray.	11719	11725'
Limestone, light brown and gray, crypto-crystalline, very fine sucrosic, with dead oil stain, no cut.	11725	11742'
Limestone, brown, light gray and gray, crypto-crystalline, slightly sucrosic, chalky; Shale, gray.	11742	11752'
Limestone, light brown and gray, as above; Shale, gray and dark gray.	11752	11762'
Limestone, gray and white, slightly mottled, crypto-crystalline, chalky, some slightly sucrosic.	11762	11772'
Limestone, gray and white, crypto-crystalline, very finely crystalline, some chalky.	11772	11783'
Limestone, gray to white, mottled in part, very finely crystalline to chalky.	11783	11794'
Limestone, gray to white, very fine crystalline to crypto-crystalline, chalky in part.	11794	11804'
Limestone, gray to light brown, very finely crystalline and chalky.	11804	11812'
Limestone, white, light brown and gray, very fine crystalline to crypto-crystalline, chalky in part with trace Pyrite.	11812	11824'
Limestone, white, light brown and gray, very fine crystalline to chalky.	11824	11832'
Limestone, light brown, gray, very fine crystalline, slightly sucrosic and chalky in part; Shale gray.	11832	11842'
Limestone, white to very light gray, very fine crystalline to coarse-crystalline, some chalky, pelletoidal.	11842	11852'
Limestone, gray, crypto-crystalline to very fine crystalline, with occasional coarse quartz grains, some white, chalky.	11852	11862'
Limestone, gray and white, crypto-crystalline, finely crystalline and finely sucrosic, with some quartz grains and fossil debris.	11862	11872'
Limestone, gray and white, very finely crystalline to chalky, some very finely oolitic, with trace gray Shale.	11872	11884'
Limestone, light gray and light greenish gray, very finely crystalline to white slightly chalky, slightly oolitic.	11884	11892'
Limestone, gray, light gray and brown, very fine crystalline with occasional black Shale inclusions.	11892	11902'
Limestone, mostly gray, very finely crystalline, with thin streaks of Shale, light gray, soft.	11902	11912'

	FROM	TO
Limestone, light gray and brown, very finely crystalline, with Shale, light to dark gray.	11912	11922'
Limestone, light gray, gray, crypto-crystalline, slightly sucrosic with chalky green streaks; Shale, dark gray, some purple.	11922	11932'
Limestone, light gray, brown and white, very fine to fine crystalline, some very fine sucrosic; with trace Sandstone; Shale, gray, soft.	11932	11942'
Shale, brown, gray and purple.	11942	11950'
Limestone, light brown, very fine crystalline, slightly sucrosic; Shale, gray, purple, light gray and white, soft.	11950	11960'
Limestone, light brown, light gray and white, very finely crystalline to coarse crystalline; Shale, gray to purple, soft.	11960	11970'
Shale, gray, light gray and brown, some lavender, purple and green.	11970	11980'
Shale, as above, some red brown, sandy with Limestone, gray to cream, dense.	11980	11990'
Shale, light gray, lavender and purple, with black, micro specks.	11990	12002'
Shale, lavender, purple, light gray and gray.	12002	12012'
Shale, light gray and purple, soft.	12012	12014'
Limestone, light gray to white, some sucrosic.	12014	12020'
Limestone and Shale, as above; trace Sandstone, tan, medium grained, salt and pepper.	12020	12030'
Shale, light gray, purple, brown and red.	12030	12038'
Limestone, light to cream, fine to medium sucrosic, with some interfil, some slightly chalky; trace of pellets.	12038	12053'
Limestone, white to cream, finely sucrosic, with trace of pellets; Shale as above.	12053	12061'
Limestone, as above, some pelletoidal, some possible dead stain.	12061	12068'
Limestone, white, mostly very fine sucrosic, slightly chalky, with trace dead stain, no cut.	12068	12078'
Shale, maroon, purple and gray.	12078	12082'
Limestone, white, coarse crystalline, some chalky, pelletoidal and slightly sucrosic, with some fossil debris.	12082	12091'
Limestone, white, finely crystalline, sucrosic, some slightly chalky, abundant fossil debris.	12091	12104'
Limestone, white, very finely sucrosic, some chalky, with fossil fragments; Limestone, white, very finely crystalline to finely sucrosic, some chalky with fossils.	12104	12142'
Limestone, white, crypto-crystalline, slightly sucrosic, some chalky; with Dolomite, white, dense; Shale, purple, lavender, red and white.	12142	12166'
Limestone, white, fine to coarse crystalline, some sucrosic, with trace Dolomite.	12166	12183'
Limestone, white, finely crystalline, finely sucrosic to chalky.	12183	12190'
Limestone, as above, some crypto-crystalline.	12190	12198'
Limestone, light gray, brown and white, very fine crystalline, some sucrosic, with occasional fossil debris.	12198	12210'
Shale, lavender, purple and white.		
Limestone, gray to light brown, micro-crystalline to very finely sucrosic; with Dolomite, brown, dense; Shale, white, lavender and purple, some green.	12210	12222'
Shale, as above, becoming increasingly white and gray; Sandstone, clear, coarse to very coarse grained, angular sherds, slight quartzitic, becoming increasingly quartzitic.	12222	12259'
Quartzite, as above.	12259	12270'
Quartzite, white, very coarse grain, very angular.	12270	12278'

FIELD _____ SEC. _____ T. _____ R. _____ PAGE 24
 FARM _____ WELL NO. _____
 COMPANY _____

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	<u>FROM</u>	<u>TO</u>
Quartzite, white, very coarse to coarse grained, angular to subrounded, mostly unconsolidated.	12278	12290'
Quartzite, white, coarse to medium grained, as above.	12290	12300'
Quartzite, white, coarse grained, angular, unconsolidated; Shale, gray, friable and Limestone brown, dense, (Cavings).	12300	12312'
Limestone, brown, crypto-crystalline; Shale, gray, firm; Quartzite, as above, with trace chert, brown, abundant cavings.	12312	12322'
Quartzite, as above, with trace red Shale on some grains.	12322	12329'
Quartzite, white, very coarse to fine grained, angular to subrounded.	12329	12339'
Quartzite, white to clear, fine to medium to very coarse grained, subrounded to angular, unconsolidated, with Shale red, silty.	12339	12357'
Quartzite, as above, becoming mostly coarse to very coarse grained.	12357	12360'
Quartzite, white, coarse to very coarse grained, some medium grained, mostly unconsolidated, with occasional red Shale, in interspaces.	12360	12382'
Quartzite, as above, trace chert, brown.	12382	12388'
Quartzite, white to clear, medium to very coarse grained; Shale, red, silty.	12388	12402'
Quartzite, as above, trace chert, brown.	12402	12412'
Shale, bright red; Quartzite, white, coarse to very coarse grained, unconsolidated, with red Shale stain on occasional chips.	12412	12420'
Quartzite, white, medium grained, subangular to angular, very coarse grained, abundant unconsolidated grains.	12420	12433'
Quartzite, as above, trace pink Feldspar?	12433	12437'