API #15-153-21026

Saman Sharifaie
Petroleum Geologist

GEOLOGIST'S REPORT
DRILLING TIME AND SAMPLE LOG

OPERATOR	Mull Drilling Co., Inc.
LEASE	Bird Trust
WELL NUMBER	1-35
LOCATION	330' FSL & 330' FEL
	NE - SE - SE - SW
COUNTY	Ellis County, Kansas
CONTRACTOR	Duke Drilling Co. Rig #8
SPUD	06/20/14
COMPLETION	06/26/14
TOTAL DEPTH	3800'
CASING	Surface: 8 5/8" @ 217'
	Production: 5 1/2" @ 3799'
ELEVATION	GL: 2117' KB: 2125'
	Derrick Floor: 8'
ELECTRICAL SURVEY	Company: Superior Well Services
	Logging Engineer: Bob Hamm
	Logging Type: Dual Induction, Compensated Density Neutron, Microlog
DRILL STEM TESTS	None
SAMPLES	Saved and Examined from 3100' to RTD
GEOLOGICAL SUPERVISION	From 3300' to RTD
DAILY DRILLING REPORT	Morgan Mud Co.
DRILLING MUD	Chemical Mud from 3300' to RTD

Formation	Sample Tops	Log Tops
Anhydrite	1122	1120
Base Anhydrite	1158	1156
Topeka	3092	3090
Heebner	3312	3310
Toronto	3330	3328
Lansing-Kansas City	3372	3370
Muncie Creek	3543	3541
Stark	3627	3625
Hushpuckney	3666	3664
Base Kansas City	3702	3700
Marmaton	3716	3714
Pawnee	3795	3793
Fort Scott	3842	3840
Cherokee Shale	3867	3865
Mississippian	3900	3898
RTD	3800	
LTD		3799

API #15-153-21026

REMARKS: Due to her shows of oil in multiple potential pay zones and positive DST results, it is recommended and agreed upon by all parties that production casing be set to further evaluate this well.

Respectfully Submitted,

Saman Sharifaie
Petroleum Geologist

*Tops have been adjusted to electric logs

Depth	Geologic Descriptions	Engineering Data
100		
110		
120		
130	**Anhydrite 3122 (+104)**	
140		
150	**Anhydrite Base 3158 (+68)**	
160		
170		
180		
190		
200		
210		
220		
230		
240		
250		
260		
270		
280		
290		
300		
310		
320		
330		
340		
350		
360		
370		
380		
390		
400		
410		
420		
430		
440		
450		
460		
470		
480		
490		
500		
510		
520		
530		
540		
550		
560		
570		
580		
590		
600		
610		
620		
630		
640		
650		
660		
670		
680		
690		
700		
710		
720		
730		
740		
750		
760		
770		
780		
790		
800		
810		
820		
830		
840		
850		
860		
870		
880		
890		
900		
910		
920		
930		
940		
950		
960		
970		
980		
990		
1000		
1010		
1020		
1030		
1040		
1050		
1060		
1070		
1080		
1090		
1100		
1110		
1120		
1130		
1140		
1150		
1160		
1170		
1180		
1190		
1200		
1210		
1220		
1230		
1240		
1250		
1260		
1270		
1280		
1290		
1300		
1310		
1320		
1330		
1340		
1350		
1360		
1370		
1380		
1390		
1400		
1410		
1420		
1430		
1440		
1450		
1460		
1470		
1480		
1490		
1500		
1510		
1520		
1530		
1540		
1550		
1560		
1570		
1580		
1590		
1600		
1610		
1620		
1630		
1640		
1650		
1660		
1670		
1680		
1690		
1700		
1710		
1720		
1730		
1740		
1750		
1760		
1770		
1780		
1790		
1800		
1810		
1820		
1830		
1840		
1850		
1860		
1870		
1880		
1890		
1900		
1910		
1920		
1930		
1940		
1950		
1960		
1970		
1980		
1990		
2000		
2010		
2020		
2030		
2040		
2050		
2060		
2070		
2080		
2090		
2100		
2110		
2120		
2130		
2140		
2150		
2160		
2170		
2180		
2190		
2200		
2210		
2220		
2230		
2240		
2250		
2260		
2270		
2280		
2290		
2300		
2310		
2320		
2330		
2340		
2350		
2360		
2370		
2380		
2390		
2400		
2410		
2420		
2430		
2440		
2450		
2460		
2470		
2480		
2490		
2500		
2510		
2520		
2530		
2540		
2550		
2560		
2570		
2580		
2590		
2600		
2610		
2620		
2630		
2640		
2650		
2660		
2670		
2680		
2690		
2700		
2710		
2720		
2730		
2740		
2750		
2760		
2770		
2780		
2790		
2800		
2810		
2820		
2830		
2840		
2850		
2860		
2870		
2880		
2890		
2900		
2910		
2920		
2930		
2940		
2950		
2960		
2970		
2980		
2990		
3000		
3010		
3020		
3030		
3040		
3050		
3060		
3070		
3080		
3090		
3100		
3110		
3120		
3130		
3140		
3150		
3160		
3170		
3180		
3190		
3200		
3210		
3220		
3230		
3240		
3250		
3260		
3270		
3280		
3290		
3300		
3310		
3320		
3330		
3340		
3350		
3360		
3370		
3380		
3390		
3400		
3410		
3420		
3430		
3440		
3450		
3460		
3470		
3480		
3490		
3500		
3510		
3520		
3530		
3540		
3550		
3560		
3570		
3580		
3590		
3600		
3610		
3620		
3630		
3640		
3650		
3660		
3670		
3680		
3690		
3700		
3710		
3720		
3730		
3740		
3750		
3760		
3770		
3780		
3790		
3800		
3810		
3820		
3830		
3840		
3850		
3860		
3870		
3880		
3890		
3900		
3910		
3920		
3930		
3940		
3950		
3960		
3970		
3980		
3990		
4000		
4010		
4020		
4030		
4040		
4050		
4060		
4070		
4080		
4090		
4100		
4110		
4120		
4130		
4140		
4150		
4160		
4170		
4180		
4190		
4200		
4210		
4220		
4230		
4240		
4250		
4260		
4270		
4280		
4290		
4300		
4310		
4320		
4330		
4340		
4350		
4360		
4370		
4380		
4390		
4400		
4410		
4420		
4430		
4440		
4450		
4460		
4470		
4480		
4490		
4500		
4510		
4520		
4530		
4540		
4550		
4560		
4570		
4580		
4590		
4600		
4610		
4620		
4630		
4640		
4650		
4660		
4670		
4680		
4690		
4700		
4710		
4720		
4730		
4740		
4750		
4760		
4770		
4780		
4790		
4800		
4810		
4820		
4830		
4840		
4850		
4860		
4870		
4880		
4890		
4900		
4910		
4920		
4930		
4940		
4950		
4960		
4970		
4980		
4990		
5000		
5010		
5020		
5030		
5040		
5050		
5060		
5070		
5080		
5090		
5100		
5110		
5120		
5130		
5140		
5150		
5160		
5170		
5180		
5190		
5200		
5210		
5220		
5230		
5240		
5250		
5260		
5270		
5280		
5290		
5300		
5310		
5320		
5330		
5340		
5350		
5360		
5370		
5380		
5390		
5400		
5410		
5420		
5430		
5440		
5450		
5460		
5470		
5480		
5490		
5500		
5510		
5520		
5530		
5540		
5550		
5560		
5570		
5580		
5590		
5600		
5610		
5620		
5630		
5640		
5650		
5660		
5670		
5680		
5690		
5700		
5710		
5720		
5730		
5740		
5750		
5760		
5770		
5780		
5790		
5800		
5810		
5820		
5830		
5840		
5850		
5860		
5870		
5880		
5890		
5900		
5910		
5920		
5930		
5940		
5950		
5960		
5970		
5980		
5990		
6000		
6010		
6020		
6030		
6040		
6050		
6060		
6070		
6080		
6090		
6100		
6110		
6120		
6130		
6140		
6150		
6160		
6170		
6180		
6190		
6200		
6210		
6220		
6230		
6240		
6250		
6260		
6270		
6280		
6290		
6300		
6310		
6320		
6330		
6340		
6350		
6360		
6370		
6380		
6390		
6400		
6410		
6420		
6430		
6440		
6450		
6460		
6470		
6480		
6490		
6500		
6510		
6520		
6530		
6540		
6550		
6560		
6570		
6580		
6590		
6600		
6610		
6620		
6630		
6640		
6650		
6660		
6670		
6680		
6690		
6700		
6710		
6720		
6730		
6740		
6750		
6760		
6770		
6780		
6790		
6800		
6810		
6820		
6830		
6840		
6850		
6860		
6870		
6880		
6890		
6900		
6910		
6920		
6930		
6940		
6950		
6960		
6970		
6980		
6990		
7000		
7010		
7020		
7030		
7040		
7050		
7060		
7070		
7080		
7090		
7100		
7110		
7120		
7130		
7140		
7150		
7160		
7170		
7180		
7190		
7200		
7210		
7220		
7230		
7240		
7250		
7260		
7270		
7280		
7290		
7300		
7310		
7320		
7330		
7340		
7350		
7360		
7370		
7380		
7390		
7400		
7410		
7420		
7430		
7440		
7450		
7460		
7470		
7480		
7490		
7500		
7510		
7520		
7530		
7540		
7550		
7560		
7570		
7580		
7590		
7600		
7610		
7620		
7630		
7640		
7650		
7660		
7670		
7680		
7690		
7700		
7710		
7720		
7730		
7740		
7750		
7760		
7770		
7780		
7790		
7800		
7810		
7820		
7830		
7840		
7850		
7860		
7870		
7880		
7890		
7900		
7910		
7920		
7930		
7940		
7950		
7960		
7970		
7980		
7990		
8000		
8010		
8020		
8030		
8040		
8050		
8060		
8070		
8080		
8090		
8100		
8110		
8120		
8130		
8140		
8150		
8160		
8170		
8180		
8190		
8200		
8210		
8220		
8230		
8240		
8250		
8260		
8270		
8280		
8290		
8300		
8310		
8320		
8330		
8340		
8350		
8360		
8370		
8380		
8390		
8400		
8410		
8420		
8430		
8440		
8450		
8460		
8470		
8480		
8490		
8500		
8510		
8520		
8530		
8540		
8550		
8560		
8570		
8580		
8590		
8600		
8610		
8620		
8630		
8640		
8650		
8660		
8670		
8680		
8690		
8700		
8710		
8720		
8730		
8740		
8750		
8760		
8770		
8780		
8790		
8800		
8810		
8820		
8830		
8840		
8850		
8860		
8870		
8880		
8890		
8900		
8910		
8920		
8930		
8940		
8950		
8960		
8970		
8980		
8990		
9000		
9010		
9020		
9030		
9040		
9050		
9060		
9070		
9080		
9090		
9100		
9110		
9120		
9130		
9140		
9150		
9160		
9170		
9180		
9190		
9200		
9210		
9220		
9230		
9240		
9250		
9260		
9270		
9280		
9290		
9300		
9310		
9320		
9330		
9340		
9350		
9360		
9370		
9380		
9390		
9400		
9410		
9420		
9430		
9440		
9450		
9460		
9470		
9480		
9490		
9500		
9510		
9520		
9530		
9540		
9550		
9560		
9570		
9580		
9590		
9600		
9610		
9620		
9630		
9640		
9650		
9660		
9670		
9680		
9690		
9700		
9710		
9720		
9730		
9740		
9750		
9760		
9770		
9780		
9790		
9800		
9810		
9820		
9830		
9840		
9850		
9860		
9870		
9880		
9890		
9900		
9910		
9920		
9930		
9940		
9950		
9960		
9970		
9980		
9990		
10000		

Depth	Geologic Descriptions	Engineering Data
1100	**DAILY PENETRATION @ 7:00 AM**	Morgan Mud @ 3004'
1200	**06/18/14 - Spudded at 9:00 AM**	Wt: 8.4
1300	**06/19/14 - Drilling at 1100'**	Vis: 28
1400	**06/20/14 - Drilling at 2040'**	WL: 10.0
1500	**06/21/14 - Drilling at 3050'**	Chl: 600
1600	**06/22/14 - Drilling at 3300'**	LCM: 1bbl
1700	**06/23/14 - Drilling at 3500'**	Pac-Rep @ 500' 5.5° Bent to Board
1800	**06/24/14 - Drilling at 4230'**	Deviation Survey: 0°
1900	**06/25/14 - Drilling at 4500'**	
2000	**06/26/14 - Logging in 4520'**	
2100	Shale, brownish-gray, gray, and pink, noticed, 5' Ingrown & oil, pyrite, calcareous, 5' Ingrown	
2200	Shale, cmm, fm gray, sprkl, noticed, 5' Ingrown & oil, pyrr, calc, fr, mdrng, sub grayish Bk, cmm	
2300	Shale, brownish-orange-gray, pink-gray, sprkl, pyrr, Ingrown pyrr, noticed, calc, fm, sub gray, Bk, 5' Ingrown cmm	
2400	Bk, gray, shale, fm, sm gr pyrr, 5' Ingrown	
2500	Shale, brn, brownish gray, sprkl, pink Ingrown pyrr, noticed, fr to vfr, mdrng, sub gray, Bk, sm gr pyrr, 5' Ingrown cmm	
2600	**Nora 3010 (-884)**	
2700	Lm, cmm, mdrng, fm sm, frosty, sp, pr intrclsp pores, vfrs, sub cmm, fm fr mdrng, sbang, frosty, vsl	
2800	Lm, gray, mbrn, frosty, fm	
2900	Lm, mdrng, gray, vfr, vsl, fr fr, pr intrclsp pores, vfrs, sub cmm, fm fr mdrng, sbang, frosty, vsl	
3000	Shale, brownish-gray, vfr sl, sprkl, pink Ingrown pyrr, noticed, fr to vfr, mdrng, sub gray, Bk, cmm	
3100	Lm, cmm, mdrng, vfr, vsl, fr fr, pr, pr intrclsp pores, vfrs, sub cmm, fm fr mdrng, sbang, frosty, vsl	
3200	Lm, gray, mbrn, frosty, fm	
3300	Lm, cmm, mdrng, vfr, vsl, fr fr, pr, pr intrclsp pores, vfrs, sub cmm, fm fr mdrng, sbang, frosty, vsl	
3400	Shale, brownish-gray, sprkl, pink Ingrown pyrr, noticed, fr to vfr, mdrng, sub gray, Bk, cmm	
3500	Lm, cmm, mdrng, vfr, vsl, fr fr, pr, pr intrclsp pores, vfrs, sub cmm, fm fr mdrng, sbang, frosty, vsl	
3600	Lm, gray, mbrn, frosty, fm	
3700	Lm, cmm, mdrng, vfr, vsl, fr fr, pr, pr intrclsp pores, vfrs, sub cmm, fm fr mdrng, sbang, frosty, vsl	
3800	Shale, brownish-gray, sprkl, pink Ingrown pyrr, noticed, fr to vfr, mdrng, sub gray, Bk, cmm	
3900	Lm, cmm, mdrng, vfr, vsl, fr fr, pr, pr intrclsp pores, vfrs, sub cmm, fm fr mdrng, sbang, frosty, vsl	
4000	Lm, gray, mbrn, frosty, fm	
4100	Lm, cmm, mdrng, vfr, vsl, fr fr, pr, pr intrclsp pores, vfrs, sub cmm, fm fr mdrng, sbang, frosty, vsl	
4200	Shale, brownish-gray, sprkl, pink Ingrown pyrr, noticed, fr to vfr, mdrng, sub gray, Bk, cmm	
4300	Lm, cmm, mdrng, vfr, vsl, fr fr, pr, pr, pr intrclsp pores, vfrs, sub cmm, fm fr mdrng, sbang, frosty, vsl	
4400	Lm, gray, mbrn, frosty, fm	
4500	Lm, cmm, mdrng, vfr, vsl, fr fr, pr, pr, pr intrclsp pores, vfrs, sub cmm, fm fr mdrng, sbang, frosty, vsl	
4600	Shale, brownish-gray, sprkl, pink Ingrown pyrr, noticed, fr to vfr, mdrng, sub gray, Bk, cmm	
4700	Lm, cmm, mdrng, vfr, vsl, fr fr, pr, pr, pr, pr intrclsp pores, vfrs, sub cmm, fm fr mdrng, sbang, frosty, vsl	
4800	Lm, gray, mbrn, frosty, fm	
4900	Lm, cmm, mdrng, vfr, vsl, fr fr, pr, pr, pr, pr, pr intrclsp pores, vfrs, sub cmm, fm fr mdrng, sbang, frosty, vsl	
5000	Shale, brownish-gray, sprkl, pink Ingrown pyrr, noticed, fr to vfr, mdrng, sub gray, Bk, cmm	
5100	Lm, cmm, mdrng, vfr, vsl, fr fr, pr, pr, pr, pr, pr, pr intrclsp pores, vfrs, sub cmm, fm fr mdrng, sbang, frosty, vsl	
5200	Lm, gray, mbrn, frosty, fm	
5300	Lm, cmm, mdrng, vfr, vsl, fr fr, pr, pr, pr, pr, pr, pr, pr intrclsp pores, vfrs, sub cmm, fm fr mdrng, sbang, frosty, vsl	
5400	Shale, brownish-gray, sprkl, pink Ingrown pyrr, noticed, fr to vfr, mdrng, sub gray, Bk, cmm	
5500	Lm, cmm, mdrng, vfr, vsl, fr fr, pr, pr, pr, pr, pr, pr, pr, pr intrclsp pores, vfrs, sub cmm, fm fr mdrng, sbang, frosty, vsl	
5600	Lm, gray, mbrn, frosty, fm	
5700	Lm, cmm, mdrng, vfr, vsl, fr fr, pr, pr, pr, pr, pr, pr, pr, pr, pr intrclsp pores, vfrs, sub cmm, fm fr mdrng, sbang, frosty, vsl	
5800	Shale, brownish-gray, sprkl, pink Ingrown pyrr, noticed, fr to vfr, mdrng, sub gray, Bk, cmm	
5900	Lm, cmm, mdrng, vfr, vsl, fr fr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr intrclsp pores, vfrs, sub cmm, fm fr mdrng, sbang, frosty, vsl	
6000	Lm, gray, mbrn, frosty, fm	
6100	Lm, cmm, mdrng, vfr, vsl, fr fr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr intrclsp pores, vfrs, sub cmm, fm fr mdrng, sbang, frosty, vsl	
6200	Shale, brownish-gray, sprkl, pink Ingrown pyrr, noticed, fr to vfr, mdrng, sub gray, Bk, cmm	
6300	Lm, cmm, mdrng, vfr, vsl, fr fr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr intrclsp pores, vfrs, sub cmm, fm fr mdrng, sbang, frosty, vsl	
6400	Lm, gray, mbrn, frosty, fm	
6500	Lm, cmm, mdrng, vfr, vsl, fr fr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr intrclsp pores, vfrs, sub cmm, fm fr mdrng, sbang, frosty, vsl	
6600	Shale, brownish-gray, sprkl, pink Ingrown pyrr, noticed, fr to vfr, mdrng, sub gray, Bk, cmm	
6700	Lm, cmm, mdrng, vfr, vsl, fr fr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr intrclsp pores, vfrs, sub cmm, fm fr mdrng, sbang, frosty, vsl	
6800	Lm, gray, mbrn, frosty, fm	
6900	Lm, cmm, mdrng, vfr, vsl, fr fr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr intrclsp pores, vfrs, sub cmm, fm fr mdrng, sbang, frosty, vsl	
7000	Shale, brownish-gray, sprkl, pink Ingrown pyrr, noticed, fr to vfr, mdrng, sub gray, Bk, cmm	
7100	Lm, cmm, mdrng, vfr, vsl, fr fr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr intrclsp pores, vfrs, sub cmm, fm fr mdrng, sbang, frosty, vsl	
7200	Lm, gray, mbrn, frosty, fm	
7300	Lm, cmm, mdrng, vfr, vsl, fr fr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr intrclsp pores, vfrs, sub cmm, fm fr mdrng, sbang, frosty, vsl	
7400	Shale, brownish-gray, sprkl, pink Ingrown pyrr, noticed, fr to vfr, mdrng, sub gray, Bk, cmm	
7500	Lm, cmm, mdrng, vfr, vsl, fr fr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr intrclsp pores, vfrs, sub cmm, fm fr mdrng, sbang, frosty, vsl	
7600	Lm, gray, mbrn, frosty, fm	
7700	Lm, cmm, mdrng, vfr, vsl, fr fr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr intrclsp pores, vfrs, sub cmm, fm fr mdrng, sbang, frosty, vsl	
7800	Shale, brownish-gray, sprkl, pink Ingrown pyrr, noticed, fr to vfr, mdrng, sub gray, Bk, cmm	
7900	Lm, cmm, mdrng, vfr, vsl, fr fr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr intrclsp pores, vfrs, sub cmm, fm fr mdrng, sbang, frosty, vsl	
8000	Lm, gray, mbrn, frosty, fm	
8100	Lm, cmm, mdrng, vfr, vsl, fr fr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr intrclsp pores, vfrs, sub cmm, fm fr mdrng, sbang, frosty, vsl	
8200	Shale, brownish-gray, sprkl, pink Ingrown pyrr, noticed, fr to vfr, mdrng, sub gray, Bk, cmm	
8300	Lm, cmm, mdrng, vfr, vsl, fr fr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr intrclsp pores, vfrs, sub cmm, fm fr mdrng, sbang, frosty, vsl	
8400	Lm, gray, mbrn, frosty, fm	
8500	Lm, cmm, mdrng, vfr, vsl, fr fr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr intrclsp pores, vfrs, sub cmm, fm fr mdrng, sbang, frosty, vsl	
8600	Shale, brownish-gray, sprkl, pink Ingrown pyrr, noticed, fr to vfr, mdrng, sub gray, Bk, cmm	
8700	Lm, cmm, mdrng, vfr, vsl, fr fr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr intrclsp pores, vfrs, sub cmm, fm fr mdrng, sbang, frosty, vsl	
8800	Lm, gray, mbrn, frosty, fm	
8900	Lm, cmm, mdrng, vfr, vsl, fr fr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr intrclsp pores, vfrs, sub cmm, fm fr mdrng, sbang, frosty, vsl	
9000	Shale, brownish-gray, sprkl, pink Ingrown pyrr, noticed, fr to vfr, mdrng, sub gray, Bk, cmm	
9100	Lm, cmm, mdrng, vfr, vsl, fr fr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr intrclsp pores, vfrs, sub cmm, fm fr mdrng, sbang, frosty, vsl	
9200	Lm, gray, mbrn, frosty, fm	
9300	Lm, cmm, mdrng, vfr, vsl, fr fr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr, pr,